Converted to water injection well, May, 1963

FILE NOTATIONS

Entered in N I D File	✓	Checked by Chief	R.D.
Entered On S R Sheet		Copy N I D to Field Office	✓
Location Map Pinned	✓	Approval Letter	✓
Card Indexed	✓	Disapproval Letter	
I W R for State or Fee Land			

COMPLETION DATA:

Date Well Completed	10-4-60	Location Inspected	
OW ✓ WW	TA	Bond released State of Fee Land	
GW OS	PA		

LOGS FILED

Driller's Log 11-22-60

Electric Logs (No.) 4

E I E-I ✓ GR GR-N ✓ Micro ✓

Lat Mi-L Sonic Others Perforation Information Collar Log

Form 9-331 b
(April 1952)

Budget Bureau No. 42-R359.4.
Approval expires 12-31-60.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Navajo

Allottee Tribal

Lease No. 14-20-603-5449

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	X	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Navajo "D" Cortez, Colorado January 29, 1960

Well No. 2 is located 1980 ft. from ~~N~~ S line and 660 ft. from ~~E~~ W line of sec. 11

NE, SE, Sec. 11 (¼ Sec. and Sec. No.) | 41S (Twp.) | 24E (Range) | SLM (Meridian)

White Mesa (Field) | San Juan (County or Subdivision) | Utah (State or Territory)

The elevation of the ~~derrick floor~~ above sea level is 4439 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Drill 17-1/2" hole to approximately 160', set 160' of 13-3/8" conductor pipe and cement to surface. Drill 11" hole to approximately 1600', set 8-5/8" casing and cement to surface. Drill 7-7/8" hole to total depth of approximately 5550', run 5-1/2" casing and cement with approximately 250 sacks cement. Complete in Desert Creek formation.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Phillips Petroleum Company

Address P.O. Drawer 1150
Cortez, Colorado

By C. M. Boles
Title District Superintendent

U. S. GOVERNMENT PRINTING OFFICE 16—8437b-8

Company PHILLIPS PETROLEUM COMPANY

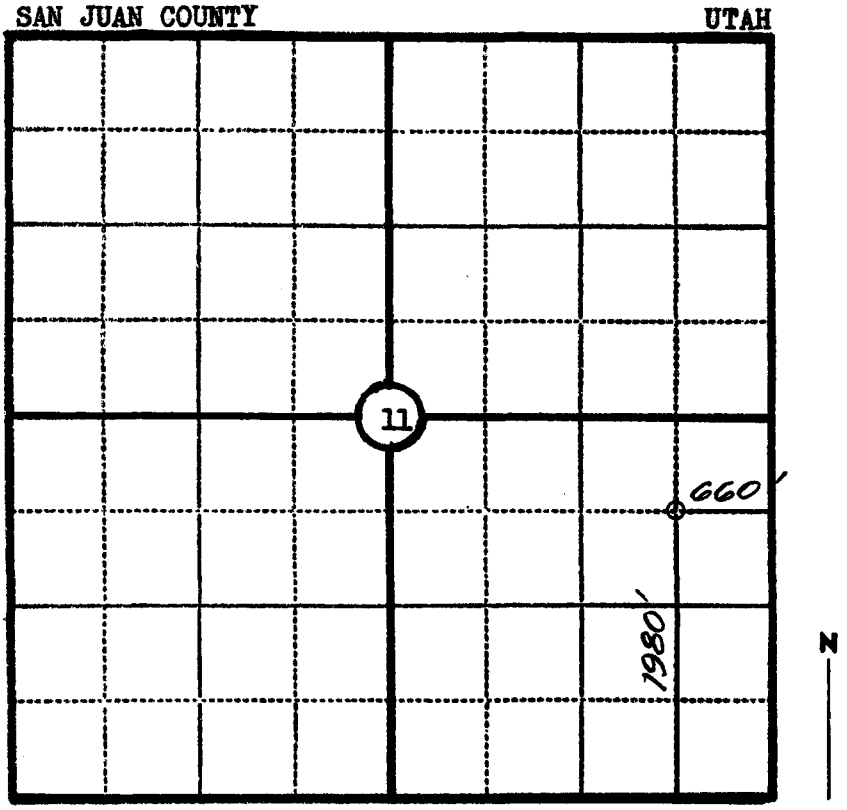
Lease Navajo "D" Well No. 2

Sec. 11, T. 41 S., R. 24 E., S.L.M.

Location 1980' FROM THE SOUTH LINE AND 660' FROM THE EAST LINE.

Elevation 4439.0 UNGRADED GROUND.

SAN JUAN COUNTY UTAH



Scale—4 inches equal 1 mile

This is to certify that the above plat was prepared from field note of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Seal:

James P. Leese
Registered Land Surveyor.
James P. Leese
Utah Reg. No. 1472

Surveyed 16 September, 1959

SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.

May 24, 1960

Phillips Petroleum Co.
P. O. Drawer 1150
Cortez, Colorado

Attention: C. M. Boles, Dist. Superintendent

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Navajo "D" 2, which is to be located 1980 feet from the South line and 660 feet from the East line of Section 11, Township 41 South, Range 24 East, SLM, San Juan County, Utah.

Please be advised that insofar as this office is concerned approval to drill said well is hereby granted.

This approval terminates within 90 days if the above mentioned well has not been spudded in within said period.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT,
EXECUTIVE SECRETARY

CBF:awg
cc: P. T. McGrath, Dist. Eng.
U. S. Geological Survey
Farmington, New Mexico

Form 9-331 b
(April 1952)

Budget Bureau No. 42-R359.4.
Approval expires 12-31-60.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Navajo

Allottee Tribal

Lease No. 14-20-603-5449

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			
Request for Extension of Time to Start Drilling	X		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Navajo "D" Cortez, Colorado May 25, 1960

Well No. 2 is located 1980 ft. from {N/S} line and 660 ft. from {E/W} line of sec. 11

NE SE Sec. 11 (¼ Sec. and Sec. No.) | 41S (Twp.) | 24E (Range) | SLM (Meridian)

White Mesa (Field) | San Juan (County or Subdivision) | Utah (State or Territory)

The elevation of the ~~derrick floor~~ ungraded ground above sea level is 4439 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

This form is submitted to request approval of extension of time to start drilling above well to 90 days from date of extension approval.

Original form dated January 29, 1960, was approved by U.S.G.S., Farmington, New Mexico office on February 2, 1960. Delay in starting drilling operations was caused by delay in obtaining approval of the Utah Oil & Gas Conservation Commission, and beyond control of Phillips Petroleum Company.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Phillips Petroleum Company

Address P. O. Drawer 1150

Cortez, Colorado

By C. M. Boles

Title District Superintendent

U. S. GOVERNMENT PRINTING OFFICE 16—8437b-8

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

Form 9-330

U. S. LAND OFFICE Navajo
SERIAL NUMBER 14-20-603-5449
LEASE OR PERMIT TO PROSPECT Tribal

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Phillips Petroleum Address Box 1150, Cortez, Colorado
Lessor or Tract Navaje "D" Field White Mesa State Utah
Well No. 2 Sec. 11 T. 41S R. 24E Meridian SLM County San Juan
Location 1980 ft. {N.} of S Line and 660 ft. {E.} of E Line of Sec. 11 Elevation 4452
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed

Date November 18, 1960 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling August 24, 1960 Finished drilling September 29, 1960

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from ____ to ____ No. 4, from ____ to ____

No. 2, from ____ to ____ No. 5, from ____ to ____

No. 3, from ____ to ____ No. 6, from ____ to ____

IMPORTANT WATER SANDS

In all sands above 1225 and from 2350 to 2520

No. 1, from ____ to ____ No. 3, from ____ to ____

No. 2, from ____ to ____ No. 4, from ____ to ____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From	Perforated To	Purpose
13-3/8	27.1	8rd	Armco	162	Howco		5246	5256	Oil Prod
8-5/8	24	8rd	J-55	1225	"		5292	5302	" "
5-1/2	14	8rd	J-55	5502	"		5296	5303	" "
							5320	5328	" "
							5332	5340	" "
							5352	5356	" "

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8	173	175 - 2% CC	Circulated		
8-5/8	1228	700 reg, 2 CC, 3%gel 1#/sk Flocele, 1#/sk Tuff Plug	Circulated - hole bridged		
5-1/2	5474	550 cu ft	Halliburton		

PLUGS AND ADAPTERS

Heaving plug—Material ____ Length 5475 Depth set ____

Adapters—Material ____ Size ____

SHOOTING RECORD

FOLD | MARK

FOLD | MARK

Casing			
13-3/8	173	175 - 2% CC	Circulated
8-5/8	1228	700 reg,2% CC,3%gel 1#/sk Flocele,1#/skTuff Plug	Circulated - hole bridged
5-1/2	5474	550 cu ft	Halliburton

PLUGS AND ADAPTERS

Heaving plug—Material XXX Length XXXXXX Depth set

Adapters—Material Size

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from 0 feet to 5475 feet, and from ______ feet to ______ feet

Cable tools were used from ______ feet to ______ feet, and from ______ feet to ______ feet

DATES

November 18, 1960 Put to producing October 4, 1960

The production for the first 24 hours was 322 barrels of fluid of which 98.2 % was oil; ______ % emulsion; 1.8 % water; and ______ % sediment. Gravity, °Bé. ______

If gas well, cu. ft. per 24 hours ______ Gallons gasoline per 1,000 cu. ft. of gas ______

Rock pressure, lbs. per sq. in. ______

EMPLOYEES

Moran Bros., Inc., Driller ______, Driller

______, Driller ______, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
1225	2132	907	Chinle
2132	2205	73	Shinarump
2205	2303	98	Moenkopi
2303	2360	57	Cutler - Hoskinini Equivalent
2360	2528	168	Cutler - DeChelly Member
2528	4296	1768	Cutler - Organ Rock Member
4296	5131	835	Honaker Trail
5131	5273	142	Paradox - Ismay zone
5273	5459	186	Paradox - DesertCreek Zone
5459	5475	16	Desert Creek Shale

[OVER]

16—43094-2 U. S. GOVERNMENT PRINTING OFFICE

HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

Spudded 8:30 AM 8/24/60. Drilled 12-1/4" hole to 180'. Reamed 17-1/4" hole to 172', set and cemented 4 jts. 13-3/8" OD 27.1# Armco H-30 casing with Halliburton Guide Shoe at 172.90' with 175 sks. regular cement, 2% Calcium Chloride. Pumped plug to 153' at 10:20 AM 8/25/60. Cement circulated.

Drilled 11" hole to 1228'. Set and cemented 40 jts. 8-5/8" OD 24# J-55 8rd ST&C casing at 1227.73' with 600 sks. regular cement, 2% Calcium Chloride, 3% gel, 1/4#/sk. Flocele, 1#/sk. Tuff Plug, followed with 100 sks. neat cement. Pumped plug to 710' with 1800# maximum pressure at 2:50 A.M. 8/28/60. Circulated approximately 50 sks. Hole bridged. Tested casing to 750# for 30 minutes. Held O.K.

Drilled 7-7/8" hole to 5262'. Cored from 5262 to 5440'. Reamed core hole to 7-7/8" and drilled 7-7/8" hole to 5475' at 2:30 A.M. 9/29/60. Ran Schlumberger Induction Electric, Micro-Caliper and Gamma Ray Neutron logs to 5480'. Set and cemented 170 jts. 5-1/2" OD 14# J-55 8rd ST&C casing at 5474.35' with 132 sks. regular cement, 100 sks. Diacel "D", 4% Calcium Chloride. Pumped plug to 5446' with 1500# maximum pressure at 4:00 A.M. 9/30/60. Tested casing with 1000# for 30 minutes - OK.

Tagged PBTD at 5446' with tubing. Pulled tubing. Ran Lane Wells collar locator log to 5445'. Perforated 5-1/2" casing from 5249-54, 5277-92, 5296-5303, 5320-28, 5332-40 and 5352-56 with 4 jet shots per foot EL and PL measure. Ran 2-7/8" OD EUE 6.5# J-55 tubing with Baker GJ (hookwall) packer. Set tubing at 5426.19, packer at 5133. Released rotary at 6:00 A.M. 10/2/60. Moved in well service unit. Acidized perforations with 2500 gallons Jel X-100 retarded acid, 250 gallons Jel X-830 temporary block 2500 gallons 15% regular acid. Formation borke down at 4000# maximum pressure, returned 3700#, minimum pressure 3200#. Rate 3.4 BPM. Block increased pressure 2900-3300#. Maximum pressure on regular acid 3300-2900#. Rate 3.7 BPM. Flushed with 40 barrels salt water, maximum pressure 3100#, minimum pressure 2900# to 1500#. Initial Potential 10/4/60: Flowed 209 BOPD through 32/64" choke, FTP 110. GOR 853.

Copy to HC

Form 9-331 b
(April 1952)

Budget Bureau No. 42-R359.4.
Approval expires 12-31-60.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Navajo

Allottee Tribal

Lease No. 14-20-603-2449

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	X
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Navajo "D" Cortez, Colorado November 18, 19 60

Well No. 2 is located 1980 ft. from {N/S} line and 660 ft. from {E/W} line of sec. 11

NE SE Sec. 11 (¼ Sec. and Sec. No.) 41S (Twp.) 24E (Range) SLM (Meridian)

White Mesa (Field) San Juan (County or Subdivision) Utah (State or Territory)

The elevation of the ungraded ground above sea level is 4439 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spudded 6:30 AM 8/24/60. Drilled 12-1/4" hole to 180'. Reamed 17-1/4" hole to 172', set and cemented 4 jts.13-3/8" OD 27.1# Armco SW SJ casing with Halliburton Guide Shoe at 172.90' with 175 sks. regular cement, 2% Calcium Chloride. Pumped plug to 153' at 10:20 AM 8/25/60. Cement circulated.

Drilled 11" hole to 1228'. Set and cemented 40 jts. 8-5/8" OD 24# J-55 8rd ST&C casing at 1227.73' with 600 sks. regular cement, 2% Calcium Chloride, 3% gel, 1/4#/sk. Flocele, 1#/sk. Tuff Plug, followed with 100 sks. neat cement. Pumped plug to 710' with 1800# maximum pressure at 2:50 A.M. 8/28/60. Circulated approximately 50 sks. Hole bridged. Tested casing to 750# for 30 minutes. Held O.K.

(Continued on back)

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Phillips Petroleum Company

Address Drawer 1150

Cortez, Colorado

By C. N. Boles

Title District Superintendent

U. S. GOVERNMENT PRINTING OFFICE 16—8437b-8

(continued)

Drilled 7-7/8" hole to 5262'. Cored from 5262 to 5440'. Reamed core hole to 7-7/8" and drilled 7-7/8" hole to 5475' at 2:30 P.M. 9/29/60. Ran Schlumberger Induction Electric, Micro-Caliper and Gamma Ray Neutron logs to 5480'. Set and cemented 170 jts. 5-1/2" OD 14# J-55 8rd ST&C casing at 5474.35' with 132 sks. regular cement, 100 sks. Diesel "D", 4% Calcium Chloride. Pumped plug to 5446' with 1500# maximum pressure at 4:00 P.M. 9/30/60. Tested casing with 1000# for 30 minutes - O.K.

Copy to H C

Form 9-331 b
(April 1952)

Budget Bureau No. 42-R359.4.
Approval expires 12-31-60.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Navajo

Allottee Tribal

Lease No. 14-20-603-5449

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	X
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Cortez, Colorado November 18, 1960

Navajo "D"

Well No. 2 is located 1980 ft. from {N/S} line and 660 ft. from {E/W} line of sec. 11

NE SE Sec. 11 (¼ Sec. and Sec. No.) | 41S (Twp.) | 24E (Range) | S.L.M. (Meridian)

White Mesa (Field) | San Juan (County or Subdivision) | Utah (State or Territory)

The elevation of the ~~derrick floor~~ ungraded ground above sea level is 4439 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Tagged PBTD at 5446' with tubing. Pulled tubing. Ran Lane Wells collar locator log to 5445'. Perforated 5-1/2" casing from 5249-54, 5277-92, 5296-5303, 5320-28, 5332-40 and 5352-56 with 4 jet shots per foot RL and RL measure. Ran 2-7/8" OD EUE 6.5# J-55 tubing with Baker EGJ (hookwall) packer. Set tubing at 5426.19, packer at 5133. Released rotary at 6:00 A.M. 10/2/60. Moved in well service unit. Acidized perforations with 2500 gallons Jel X-100 retarded acid, 250 gallons Jel X-890 temporary block, 2500 gallons 15% regular acid. Formation broke down at 4000# maximum pressure, retarded 3700#, minimum pressure 3200#. Rate 3.4 BPM. Block increased pressure 2900-3300#. Maximum pressure on regular acid 3300-2900#. Rate 3.7 BPM. Flushed with 40 barrels salt water, maximum pressure 3100#, minimum pressure 2900# to 1500#. Initial Potential 10/4/60: Flowed 316 BO, 6 BW, 269.6 MCF gas in 24 hours through 32/64" choke, FTP 110. GOR 853.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Phillips Petroleum Company

Address Drawer 1150

Cortez, Colorado

By C. M. Boles

Title Dist. Supt.

U. S. GOVERNMENT PRINTING OFFICE 16—8437b-8

Form 9-331 b
(April 1952)

Copy H.L.E.

(SUBMIT IN TRIPLICATE)

Form approved.
Budget Bureau No. 42-R359.4.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Window Rock

Allottee Navajo

Lease No. 14-20-603-5449

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		Supp. Report of Conv. to Injection	X

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

5-2460 0-2 Phillips

May 1, 1963

McElmo Creek Unit
Well No. #E-19 is located 1980 ft. from {N/S} line and 660 ft. from {E/W} line of sec. 11

NE SE Sec. 11 (¼ Sec. and Sec. No.) | 41S (Twp.) | 24E (Range) | SLBM (Meridian)

Greater Aneth (Field) | San Juan (County or Subdivision) | Utah (State or Territory)

The elevation above sea level is 4455 ft. K.B.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

4-11-63: Ran Baker Model 'M' Pkr to 5264' on 2-7/8" J-55 6.5# tbg with Marlex Plastic Liner.

Filled annulus w/crude & pressured to 500#.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Superior Oil Company

Address P. O. Drawer 'G'

Cortez, Colorado

By ORIGINAL SIGNED BY
D. D. Kingman

Title Engineer

DDK/ba

U.S. GOVERNMENT PRINTING OFFICE 16—8437b-8

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-603-5449

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo

1. OIL WELL ☐ GAS WELL ☐ OTHER: Water Injection

7. UNIT AGREEMENT NAME: McElmo Creek

2. NAME OF OPERATOR: THE SUPERIOR OIL COMPANY

8. FARM OR LEASE NAME:

3. ADDRESS OF OPERATOR: P. O. Drawer "G" Cortez, Colorado

9. WELL NO.: E-19

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface: 1980' FSL 660'FEL
NE SE Sec. 11, T41S R24E
San Juan County, Utah

10. FIELD AND POOL, OR WILDCAT: McElmo Creek Unit

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 11, T41S R24E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 4453' KB

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Stimulation			X
(Other)			☐	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

6-28-66 Treated Desert Creek perfs 5277-5356 w/15,000 gal 28% iron acid in 3 equal stages using 500 gal salt plugs between stages Hooked well up to injection.

18. I hereby certify that the foregoing is true and correct

SIGNED D. D. Kingman TITLE Production Engineer DATE August 10, 1966

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

MJE/ps

*See Instructions on Reverse Side

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-603-3449

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO

7. UNIT AGREEMENT NAME: McELMO CREEK UNIT

OIL WELL ☐ GAS WELL ☐ OTHER: WATER INJECTION

2. NAME OF OPERATOR: SUPERIOR OIL COMPANY*

8. FARM OR LEASE NAME:

3. ADDRESS OF OPERATOR: P. O. DRAWER 'G', CORTEZ, COLORADO 81321

9. WELL NO.: #E-19

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1980' FSL, 660' FEL of Sec. 11

10. FIELD AND POOL, OR WILDCAT: GREATER ANETH

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SEC. 11, T41S, R24E, SLM

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): KB: 4454', GL: 4443'

12. COUNTY OR PARISH: SAN JUAN

13. STATE: UTAH

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	XX	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

***Mobil Oil Corp. as agent for Superior Oil Co.**

10-11-84: MIRU workover rig. Flowed well to pit.
10-14-84: Released pkr, NU BOP's. POH wo tbg & pkr.
10-15-84: RIH w/ mill & 2-7/8" workstring.
10-16-84: POH w/ mill & tbg, RIH w/ scraper & tbg, hydrotesting to 6000 psig, tagged bottom at 5446'.
10-17-84: Acidized Ismay & Desert Creek I perfs w/ 6000 gals 28% HCL & Benzoic acid & salt plugs. Maximum 6.8 BPM at 3000 psig. ISIP 2400#. Flowed 670 bbls.
10-18-84: Flowed 720 bbls. POH w/ pkr.
10-19-84: RIH w/ injection pkr & string. ND BOP's, made up wellhead, RDMO.

18. I hereby certify that the foregoing is true and correct

SIGNED Gregg A. Aripp TITLE Engineer DATE 2-12-85

(This space for Federal or State office use)

APPROVED BY Leon B Feight TITLE Dist Manager DATE 2/21/84
CONDITIONS OF APPROVAL, IF ANY:

***See Instructions on Reverse Side**

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form OGC-1b

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER INJECTION WELL

2. NAME OF OPERATOR: MOBIL OIL CORP AS AGENT OF SUPERIOR OIL

3. ADDRESS OF OPERATOR: P. O. DRAWER 'G', CORTEZ, CO 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface: 1980' FSL, 660' FEL

RECEIVED
JAN 15 1986
DIVISION OF OIL GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-603-5449

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO

7. UNIT AGREEMENT NAME: MCELMO CREEK

8. FARM OR LEASE NAME: —

9. WELL NO.: E-19

10. FIELD AND POOL, OR WILDCAT: GREATER ANETH

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 11, T41S, R24E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): DF: 4452'

12. COUNTY OR PARISH: SAN JUAN

13. STATE: UTAH

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			☐
(Other) BEGIN CO2 INJECTION	XX			(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

This well is scheluded to begin CO2 injection during the First Qtr, 1986.

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 1/20/86
BY:

18. I hereby certify that the foregoing is true and correct

SIGNED [signature] TITLE Sr Staff Op Engr DATE 1.10.86

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Mobil Oil Corporation

P.O. BOX 5444
DENVER, COLORADO 80217-5444

May 14, 1986

RECEIVED
MAY 16 1986

DIVISION OF
OIL, GAS & MINING

Utah Board of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attn: R. J. Firth
Associate Director

SUPERIOR OIL COMPANY MERGER

Dear Mr. Firth:
On September 20, 1984, The Superior Oil Company (Superior) became a wholly owned subsidiary of Mobil Corporation. Since January 1, 1985, Mobil Oil Corporation (MOC), another wholly owned subsidiary of Mobil Corporation, has acted as agent for Superior and has operated the Superior-owned properties.

On April 24, 1986, Superior was merged with Mobil Exploration and Producing North America Inc. (MEPNA), which is also a wholly owned subsidiary of Mobil Corporation. MEPNA is the surviving company of the merger.

This letter is to advise you that all properties held in the name of Superior will now be held in the name of MEPNA; and that these properties will continue to be operated by MOC as agent for MEPNA.

Attached is a listing of all wells and a separate listing of injection-disposal wells, Designation of Agent and an organization chart illustrating the relationships of the various companies. If you have any questions or require additional documentation of this merger, please feel free to contact me at the above address or (303) 298-2577.

Very truly yours,

R. D. Baker
Environmental Regulatory Manager

CNE/rd
CNE8661

STATE OF UTAH
INVENTORY OF INJECTION WELLS

OPERATOR	API NO.	WELL	TNS	RGE	SE	WELLTYPE	INDIAN COUNT
MEPNA (MOBIL	43-037-15617	F-11	40S	24E	36	INJW	Y
MEPNA (MOBIL	43-037-16350	H-11	40S	24E	36	INJW	Y
MEPNA (MOBIL	43-037-15618	G-12	40S	24E	36	INJI	Y
MEPNA (MOBIL	43-037-15619	I-12	40S	24E	36	INJW	Y
MEPNA (MOBIL	43-037-16377	T-8	40S	25E	28	INJW	Y
MEPNA (MOBIL	43-037-16366	P-7	40S	25E	29	INJW	Y
MEPNA (MOBIL	43-037-16362	N-7	40S	25E	29	INJW	Y
MEPNA (MOBIL	43-037-15961	M-10	40S	25E	31	INJW	Y
MEPNA (MOBIL	43-037-16359	L-9	40S	25E	31	INJW	Y
MEPNA (MOBIL	43-037-15955	K-12	40S	25E	31	INJW	Y
MEPNA (MOBIL	43-037-16354	J-11	40S	25E	31	INJW	Y
MEPNA (MOBIL	43-037-15958	L-11	40S	25E	31	INJW	Y
MEPNA (MOBIL	43-037-15962	M-12	40S	25E	31	INJW	Y
MEPNA (MOBIL	43-037-16367	P-9	40S	25E	32	INJW	Y
MEPNA (MOBIL	43-037-31677	Q12A	40S	25E	32	INJW	Y
MEPNA (MOBIL	43-037-15968	O-12	40S	25E	32	INJW	Y
MEPNA (MOBIL	43-037-15971	P-11	40S	25E	32	INJW	Y
MEPNA (MOBIL	43-037-15965	N-11	40S	25E	32	INJW	Y
MEPNA (MOBIL	43-037-15967	O-10	40S	25E	32	INJW	Y
MEPNA (MOBIL	43-037-15964	N-9	40S	25E	32	INJW	Y
MEPNA (MOBIL	43-037-15973	Q-10	40S	25E	32	INJW	Y
MEPNA (MOBIL	43-037-30080	T-09A	40S	25E	33	INJW	Y
MEPNA (MOBIL	43-037-16155	U-12	40S	25E	33	INJW	Y
MEPNA (MOBIL	43-037-16375	S-10	40S	25E	33	INJW	Y
MEPNA (MOBIL	43-037-30179	R-11A	40S	25E	33	INJI	Y
MEPNA (MOBIL	43-037-16381	U-10	40S	25E	33	INJW	Y
MEPNA (MOBIL	43-037-16147	R-09	40S	25E	33	INJI	Y
MEPNA (MOBIL	43-037-16150	S-12	40S	25E	33	INJW	Y
MEPNA (MOBIL	43-037-16351	H-13	41S	24E	1	INJW	Y
MEPNA (MOBIL	43-037-16144	G-16	41S	24E	1	INJW	Y
MEPNA (MOBIL	43-037-16345	F-13	41S	24E	1	INJW	Y
MEPNA (MOBIL	43-037-16143	G-14	41S	24E	1	INJW	Y
MEPNA (MOBIL	43-037-15495	H-15	41S	24E	1	INJI	Y
MEPNA (MOBIL	43-037-15497	I-16	41S	24E	1	INJW	Y
MEPNA (MOBIL	43-037-31149	F-15A	41S	24E	1	INJI	Y
MEPNA (MOBIL	43-037-16267	D-13	41S	24E	2	INJW	Y
MEPNA (MOBIL	43-037-16268	E-14	41S	24E	2	INJW	Y
MEPNA (MOBIL	43-037-16341	D-15	41S	24E	2	INJW	Y
MEPNA (MOBIL	43-037-16340	B-15	41S	24E	2	INJW	Y
MEPNA (MOBIL	43-037-15616	E-16	41S	24E	2	INJW	Y
MEPNA (MOBIL	43-037-16265	C-14	41S	24E	2	INJW	Y
MEPNA (MOBIL	43-037-16338	A-17	41S	24E	10	INJW	Y
MEPNA (MOBIL	43-037-15704	D-17	41S	24E	11	INJW	Y
MEPNA (MOBIL	43-037-16342	E-19	41S	24E	11	INJW	Y
MEPNA (MOBIL	43-037-15702	C-18	41S	24E	11	INJI	Y
MEPNA (MOBIL	43-037-15496	H-17	41S	24E	12	INJI	Y
MEPNA (MOBIL	43-037-16346	G-19	41S	24E	12	INJW	Y
MEPNA (MOBIL	43-037-15709	I-18	41S	24E	12	INJW	Y
MEPNA (MOBIL	43-037-15710	I-20	41S	24E	12	INJW	Y
MEPNA (MOBIL	43-037-15493	F-17	41S	24E	12	INJW	Y
MEPNA (MOBIL	43-037-15494	G-18	41S	24E	12	INJI	Y
MEPNA (MOBIL	43-037-16352	I-23	41S	24E	13	INJI	Y
MEPNA (MOBIL	43-037-16348	G-23	41S	24E	13	INJW	Y

Mobil Oil Corporation

P.O. BOX 5444
DENVER, COLORADO 80217-5444

May 14, 1986

RECEIVED
MAY 16 1986
DIVISION OF
OIL, GAS & MINING

Utah Board of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attn: R. J. Firth
Associate Director

SUPERIOR OIL COMPANY MERGER

Dear Mr. Firth:
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Very truly yours,

R. D. Baker
Environmental Regulatory Manager

CNE/rd
CNE8661

Injection Wells 1/5 Only

WESTERN REGULATORY WELL COMPLIANCE DATA FILE (PAGE 1 OF 2)
FOR THE CORTEZ SUPERVISOR AREA
FOR THE GREATER ANETH FIELD 05/13/86

PROPERTY NAME	WELL NAME	COUNTY	STATE	SEC TWNSHP RNG	WELL TYPE	STAT	API NUMBER	FEDERAL LEASE NUMBER	STATE NUMBER	UNIT NUMBER
GOTHIC MESA	9-24	SAN JUAN	UT	SE SW 9-41S-23E	INJ	SI	43-037-16452	14-20-603-242		94-004216
	9-44	SAN JUAN	UT	SE SE 9-41S-23E	INJ	SI	43-037-16451	14-20-603-242		94-004216
	16-24	SAN JUAN	UT	SE SW 16-41S-23E	INJ	SI	43-037-16454	14-20-603-243		94-004216
	16-44	SAN JUAN	UT	SE SE 16-41S-23E	INJ	SI	43-037-16453	14-20-603-243		94-004216
MC ELMO CREEK	A17-1	SAN JUAN	UT	NE NE 10-41S-24E	INJ	OP	43-037-05592	14-20-0603-6148		96-004190
	A17-2	SAN JUAN	UT	NE NE 10-41S-24E	INJ	SI	43-037-05592	14-20-0603-6140		96-004190
	B-13	SAN JUAN	UT	NW NW 2-41S-24E	INJ	OP	43-037-05701	14-20-603-6509		96-004190
	B-15	SAN JUAN	UT	NW SW 02-41S-24E	INJ	OP	43-037-05657	14-20-603-6508		96-004190
	D-13	SAN JUAN	UT	NW NE 2-41S-24E	INJ	OP	43-037-16267	14-20-603-6510		96-004190
	D-15	SAN JUAN	UT	NW SE 2-41S-24E	INJ	OP	43-037-05656	14-20-0603-6147		96-004190
	D-17	SAN JUAN	UT	NW NE 11-41S-24E	INJ	OP	43-037-15704	14-20-603-5447		96-004190
	E-19	SAN JUAN	UT	NE SE 11-41S-24E	INJ	OP	43-037-16342	14-20-603-5449		96-004190
	E-21	SAN JUAN	UT	NE NE 14-41S-24E	INJ	OP	43-037-16343	14-20-603-370		96-004190
	E-23	SAN JUAN	UT	NE SE 14-41S-24E	INJ	OP	43-037-16344	14-20-603-370		96-004190
	F-11	SAN JUAN	UT	NW SW 36-40S-24E	INJ	OP	43-037-05743	14-20-0603-6146		96-004190
	F-13	SAN JUAN	UT	NW NW 01-41S-24E	INJ	OP	43-037-16345	14-20-603-4032		96-004190
	F-15A	SAN JUAN	UT	NW SW 1-41S-24E	INJ	OP	43-037-31149	14-20-603-4032		96-004190
	F-17	SAN JUAN	UT	NW NW 12-41S-24E	INJ	OP	43-037-15493	14-20-603-4039		96-004190
	F15A	SAN JUAN	UT	NW SW 01-41S-24E	INJ	OP	43-037-31149	14-20-603-4032		96-004190
	G-18	SAN JUAN	UT	SE NW 12-41S-24E	INJ	OP	43-037-15494	14-20-603-4039		96-004190
	G-19	SAN JUAN	UT	NE SW 12-41S-24E	INJ	OP	43-037-05532	14-20-603-5450		96-004190
	G-21	SAN JUAN	UT	NE NW 13-41S-24E	INJ	SI	43-037-16347	14-20-603-370		96-004190
	G-21A	SAN JUAN	UT	NE NW 13-41S-24E	INJ	OP	43-037-30974	14-20-603-370		96-004190
	G-23	SAN JUAN	UT	NE SW 13-41S-24E	INJ	OP	43-037-16348	14-20-603-370		96-004190
	G-25	SAN JUAN	UT	NE NW 24-41S-24E	INJ	OP	43-037-16349	14-20-603-370		96-004190
	H-11	SAN JUAN	UT	NW SE 36-40S-24E	INJ	OP	43-037-05739	14-20-0603-6145		96-004190
	H-13	SAN JUAN	UT	NW NE 01-41S-24E	INJ	OP	43-037-05708	14-20-603-4032		96-004190
	H-15	SAN JUAN	UT	NW SE 01-41S-24E	INJ	OP	43-037-05666	14-20-603-4039		96-004190
	H-17	SAN JUAN	UT	NW-NE 12-41S-24E	INJ	OP	43-037-05605	14-20-603-4039		96-004190
	I-20	SAN JUAN	UT	SE SE 12-41S-24E	INJ	OP	43-037-05524	14-20-603-4495		96-004190

CO_2

UTAH DIVISION OF OIL, GAS AND MINING
CASING-BRADENHEAD TEST

OPERATOR: MEPNA

FIELD: Greater Aneth LEASE: McElmo Creek

WELL # E-19 NAVA. D-2 SEC. 11 TOWNSHIP 41S RANGE 24E

STATE (FED.) FEE DEPTH 5475 TYPE WELL INJW MAX. INJ. PRESS. 2800

TEST DATE 9/10/86

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
SURFACE	13 3/8	173	175	→	First gauge 7100#; Second gauge 75#;	
INTERMEDIATE	8 5/8	1228	700	0#	blew down fluid	
PRODUCTION	5 1/2	5474	232		meter was not	
					working	
TUBING	2 7/8	5261		1950#		

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
SURFACE						
INTERMEDIATE						
PRODUCTION						
TUBING						

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
SURFACE						
INTERMEDIATE						
PRODUCTION						
TUBING						

THE SUPERIOR OIL COMPANY - 36.55075%

SEE OTHERS ON BACK

MC ELMO CREEK UNIT #E-19

WATER INJECTION WELL

1980' FSL, 660' FEL
NE SE, Sec. 11, T41S, R24E
San Juan County, UTAH

FIELD: MC ELMO CREEK

KB: 4453' DF: 4452' GL: 4443' TD: 5475' PBTD: 5446' TLD: 8.00'

TOC: 4581'

SPUDDED: 8-24-60 COMPLETED: 10-4-60

INJECTION ZONES: Desert Creek Zone 1, W

PERFS: Ismay 5249-54' (4 Jets/ft)
Zone 1 5277-92', 5296-5303', 5320-28' (4 Jets/ft)
Zone W 5332-40', 5352-56' (4 Jets/ft)

CASING: 13-3/8" 27.1# Armco w/175 Sx. 173'

8-5/8" 24# J-55 SS R-2 ST&C w/700 Sx. 1228'

5½" 14# J-55 8R R-2 ST&C w/232 Sx. 5474'

TUBING: 2-7/8" 6.5# J-55 8R EUE w/Taylor Tube Liner, tail @ 5261'.

PACKERS: Baker Lok-set at 5257', Baker Model "N" at 5264'.

REMARKS:

WELL HEAD: 8" Ser. 600/900 4000# T. National

10-3-60 Acidized perfs w/5000 gal. acid.

4-11-63 Converted to water injection.

6-28-66 Stimulated perfs 5277-5356' w/15,000 gal. acid in 3 equal stages. Final pressure 5000#. ISIP 3450#.

11-18-77 Treated w/ 2350 gal. 28% HCl acid. F.P. 2425 psi, ISIP 2125 psi.

5-24-79 Replaced tubing string & Baker seal assembly with new tubing string & seal assembly.

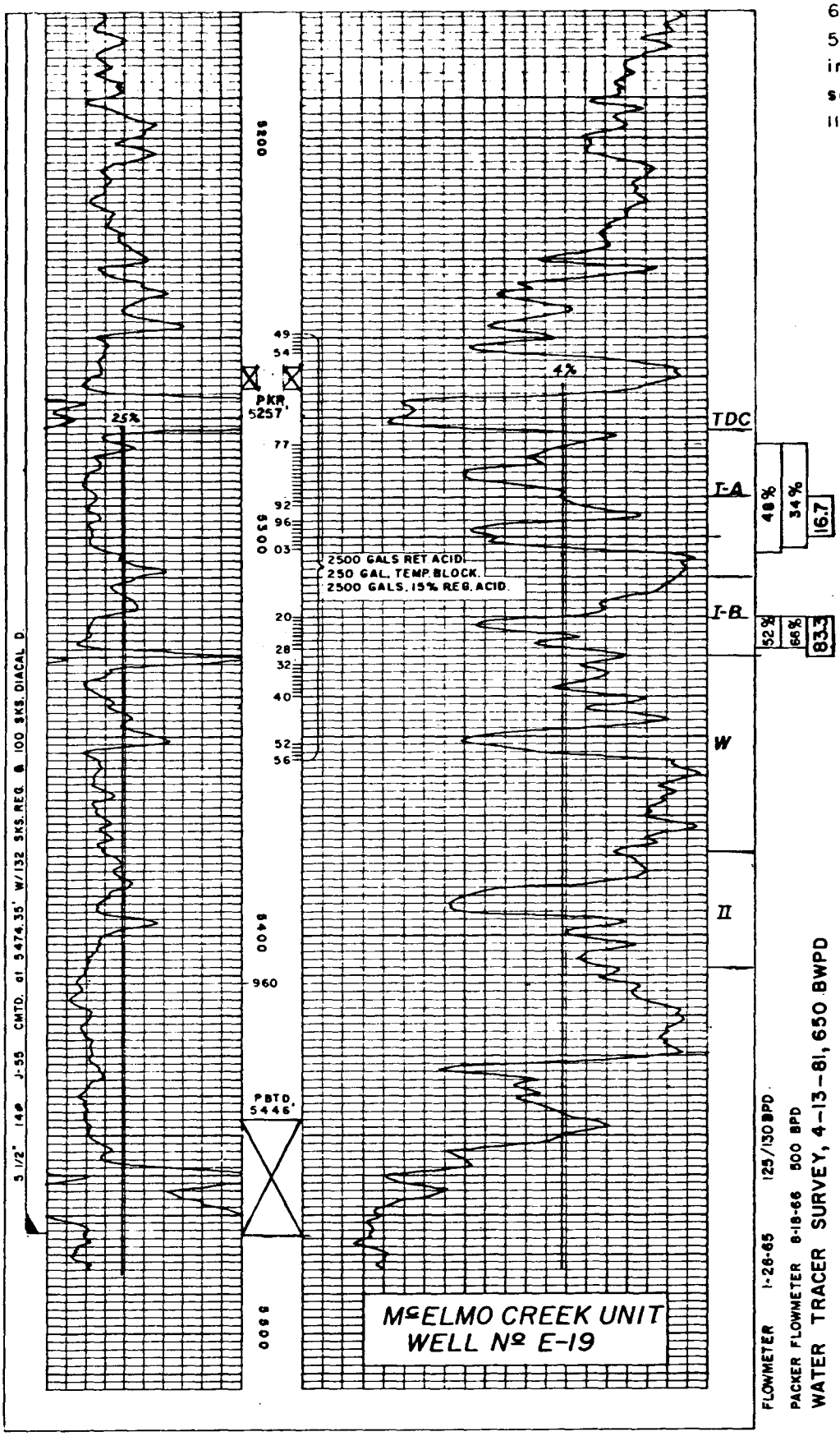
4-17-80 Ran Lok-Set packer instead of redressing seals for Model "N".

INITIAL WELL TEST

McELMO CREEK UNIT #E-19

DATE	October 4, 1960
OIL BBL/DAY	316
OIL GRAVITY	41.1
GAS CU.FT/DAY	269,600
GAS-OIL RATIO CU/FT/BBL	853
WATER BBL/DAY	6
PUMPING/FLOWING	F
CHOKE SIZE	32/64"
FLOW TUBING PRESSURE	40

6-28-66: Treated all perfs 5277'-5356' W/15,000 gal 28% iron acid in 3 equal stages using 500 gal salt plugs between stages.
11-29-77 - Trtd w/ 2350 28 % HCL



McELMO CREEK UNIT
THE SUPERIOR OIL CO. OPERATOR
NE SE SEC. 11, T41 S, R25 E.
SAN JUAN COUNTY, UTAH.
ELEV. 4453' K.B. T.D. 5475'

Revision: 9-5-78

WI
Well No. E-19

ATTACHMENT I

RULE I-5: Application for Approval of Class II Injection Wells

(a) Well Data Sheets.

(b) (1) Plat #1.
(2) Well Data Sheets.
(3) Well Data Sheets & Logs.
(4)

i. The average intervening thickness is 4000' between the existing injection interval and the deepest fresh water sand.

ii. Maximum Surface Pressure: 2800 psig.
Maximum Rate: 4000 BWPD.

FORMATION	DEPTH	LITHOLOGY
Chinle	1300' avg.	Shale
DeChelly	2350' avg.	Sandstone
Organ Rock	2600' avg.	Shale
Hermosa	4400' avg.	Limestone
Upper Ismay	5300' avg.	Limestone
Lower Ismay	5370' avg.	Limestone
Gothic	5450' avg.	Shale
Desert Creek	5460' avg.	Limestone
Chimney Rock	5550' avg.	Shale

(5)

(i) A throttling valve is installed on the wellhead to control injection rates and pressures.

(ii) The source of injection water is Superior's production wells within the McElmo Creek Unit. The wells produce from the Ismay and Desert Creek formations with approximate depths of 5300' and 5460' respectively.

(iii) The analysis of injection water is as follows: (as parts per million).

PH: 6.5	Ca: 13770 ppm	SO4: 25 ppm
CL: 16700 ppm	Mg: 11421 ppm	H2S: 30 ppm
Fe: 3 ppm	HCO3: 109.8 ppm	Ba: -
CaCO3: 18470 ppm	CO3: -	Specific Gravity: 1.0553

(5) Cont.

(iv) The injection zones are the Ismay and Desert Creek formations. Both zones are carbonate formations consisting of limestone, anhydrite and dolomite. The formations extend throughout the Paradox Basin and are underlain by the Chimney Rock Shale and are overlain by the Hermosa Limestone.

(v) Fresh water zones (Morrison, Bluff, Entrada) range from 0 to 1300' with Entrada being the deepest and somewhat saline.

(vi) The analysis of formation water (Desert Creek) is as follows: (as parts per million).

PH: 6.6	Ca: 17410 ppm	SO4: 33 ppm
CL: 34800 ppm	Mg: 11518 ppm	H2S: 10 ppm
Fe: 1.5 ppm	HCO3: 48.8 ppm	Ba: -
CaCO3: 22150 ppm	CO3: -	Specific Gravity: 1.0902

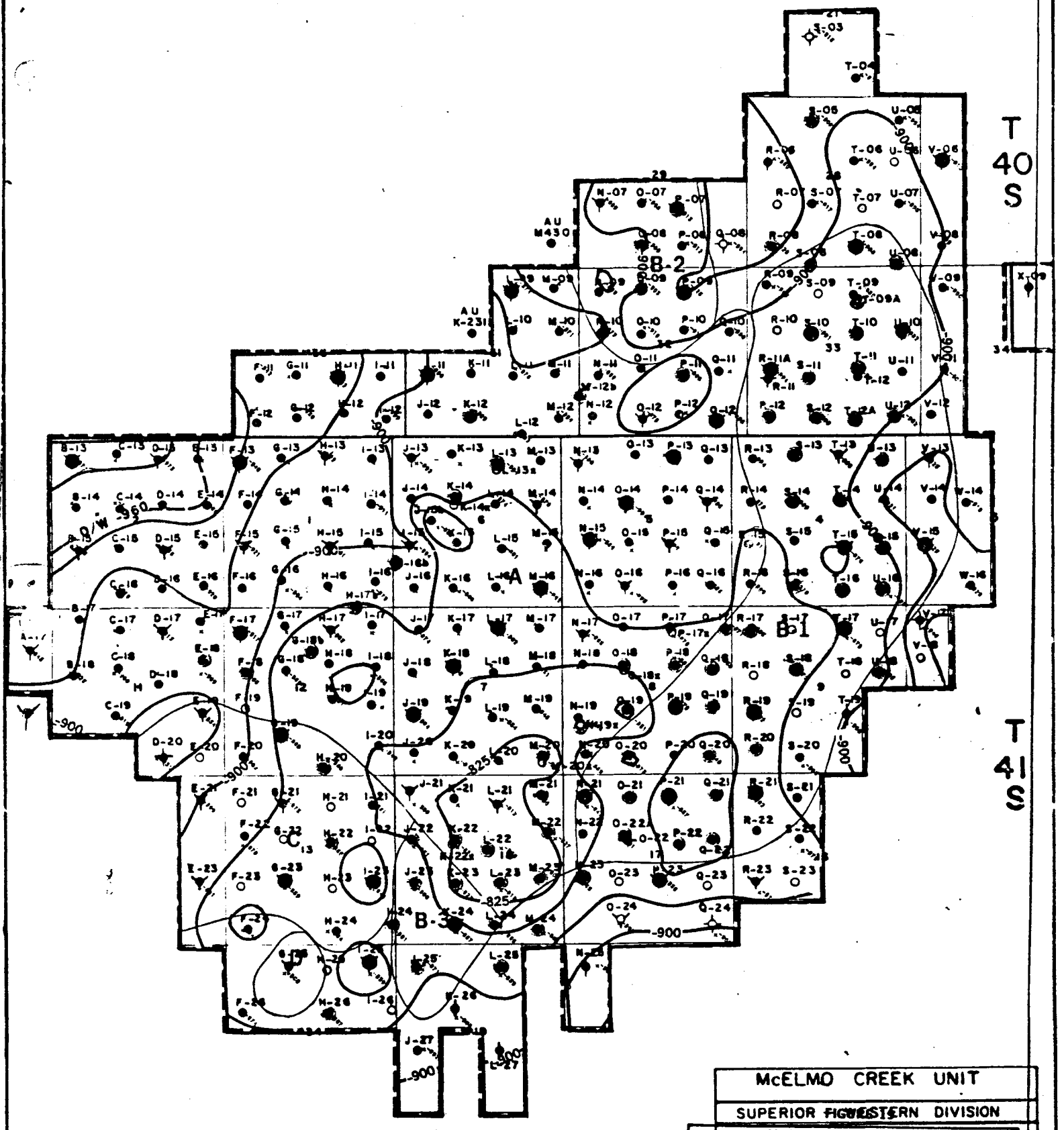
(6) To assure that injection is confined to intervals intended to receive the disposed water, wireline diagnostic surveys are run periodically to determine whether any escapement is taking place. If such information is discovered, the disposal well will be shut-in until proper measure can be taken. Casing pressure readings are made regularly to verify that no tubing or packer leaks have developed. If such leaks develop, the well will be shut-in until proper repairs can be made.

(7) N/A.

(8) The Division will be notified of the date and time to monitor the mechanical integrity test.

(9) N/A.

(10) N/A.


R24E
R25E
T 40 S
T 41 S
B-1
B-2
B-3
A
O/W -960
-900
-825
McELMO CREEK UNIT
SUPERIOR OIL — WESTERN DIVISION
McELMO CREEK UNIT
SAN JUAN COUNTY, UTAH
LAND MAP
STRUCTURE
TOP OF
DESERT CREEK LIMESTONE
ZONE 2
DATE: 4-14-
DRAWING NO.
BY:
DATE:
CHECKED
SCALE:
C.I. 25ft.
DRAWN BY
LEGEND
FUTURE LOCATION
DRILLING WELL (STATUS)
OIL WELL
WATER INJECTION WELL
DUAL SERVICE, INJ/PROD
O/W CONTACT -960
0
2000'
4000'
N

CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW

Operator: Superior Well No. McElmo Creek Unit E19

County: San Juan T 41S R 24E Sec. 11 API# 43-037-16342

New Well ___ Conversion ___ Disposal Well ___ Enhanced Recovery Well X

	YES	NO
UIC Forms Completed	✓	
Plat including Surface Owners, Leaseholders, and wells of available record	✓	
Schematic Diagram	✓	
Fracture Information	✓	
Pressure and Rate Control	✓	
Adequate Geologic Information	✓	
Fluid Source	Desert Creek-Ismay	
Analysis of Injection Fluid	Yes ✓ No ___	TDS 60,000+
Analysis of Water in Formation to be injected into	Yes ✓ No ___	TDS 70,000+
Known USDW in area	Navajo	Depth 1300
Number of wells in area of review	8 Prod. 5	P&A 1
	Water ___	Inj. 2
Aquifer Exemption	Yes ___	NA ✓
Mechanical Integrity Test	Yes ✓ No ___	
	Date 4-24-84	Type Water Tracer Log

Comments: _____

Reviewed by: CBF

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

5. Lease Designation & Serial No.

6. If Indian, Allottee or Tribe Name
NAVAJO

1. Oil Well /_/ Gas Well /_/ Other:WATER/CO2 INJECTOR

7. Unit Agreement Name
MCELMO CREEK UNIT

2. Name of Operator
MOBIL OIL CORPORATION

8. Farm or Lease Name

3. Address of Operator
P. O. DRAWER G, CORTEZ, CO. 81321

9. Well No.
E-19

4. Location of Well
1980' FSL, 660' FEL
NESE, SEC. 11, T41S, R24E
SAN JUAN COUNTY, UTAH

10. Field and Pool, or Wildcat
GREATER ANETH FIELD

11. Sec. T,R,M or BLK and Survey or Area
SEC. 11, T41S, R24E

12. County, Parish
SAN JUAN COUNTY

13. State
UTAH

14. Permit No.
43-037-16342

15. Elevations (DF, RT, GR)
4443' GL

RECEIVED
JAN 16 1990
DIVISION OF OIL, GAS & MINING

RECEIVED
JAN 16 1990
DIVISION OF OIL, GAS & MINING

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

Notice of Intention To:				Subsequent Report of:			
Test Water Shut-off	/_/	Pull or Alter Casing	/_/	Water Shut-off	/_/	Repairing Well	/_/
Fracture Treat	/_/	Multiple Complete	/_/	Fracture Treatment	/_/	Altering Casing	/_/
Shoot or Acidize	/_/	Abandon *	/_/	Shooting/Acidizing	/_/	Abandonment *	/_/
Repair Well	/XX/	Change Plans	/_/	(Other)	/_/		
(Other)			/_/	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)			

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zone pertinent to this work) *

THIS NOTICE IS A FOLLOW-UP TO VERBAL APPROVAL RECEIVED FROM MR. GUS STOLTZ ON THE WEEK ENDING 1-5-90 TO TEST THE DOWNHOLE EQUIPMENT IN THE SUBJECT WELL AND DETERMINE THE SOURCE OF CASING/TUBING ANNULUS PRESSURE RECENTLY DETECTED. VERBAL APPROVAL INCLUDED THAT NECESSARY TO RETURN THE WELL TO INJECTION.

JRB	GLH
DTS	SLS
2-TAS	
3. MICROFILM	
4. UIC FILE	

18. I hereby certify that the foregoing is true and correct

Signed: Gregg A. Tripp Title: Engineer Date: January 9, 1990

(This space for Federal or State office use)
APPROVED BY _____ TITLE: _____ DATE: _____
CONDITIONS OF APPROVAL, IF ANY:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Accepted by State of Utah Division of Oil, Gas and Mining
Date: 2-1-90
By: For Record only

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

1. Oil Well /_/ Gas Well /_/ Other:WATER/CO2 INJECTOR
2. Name of Operator
MOBIL OIL CORPORATION
3. Address of Operator
P. O. DRAWER G, CORTEZ, CO. 81321
4. Location of Well
1980' FSL, 660' FEL
NESE, SEC. 11, T41S, R24E
SAN JUAN COUNTY, UTAH

5. Lease Designation & Serial No.
6. If Indian, Allottee or Tribe Name
NAVAJO
7. Unit Agreement Name
MCELMO CREEK UNIT
8. Farm or Lease Name
9. Well No.
E-19
10. Field and Pool, or Wildcat
GREATER ANETH FIELD
11. Sec. T,R,M or BLK and Survey or Area
SEC. 11, T41S, R24E
12. County, Parish
SAN JUAN COUNTY
13. State
UTAH

14. Permit No.
43-037-11342
15. Elevations (DF, RT, GR)
4443' GL

JAN 19 1990

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

Notice of Intention To:				Subsequent Report of:			
Test Water Shut-off	/_/	Pull or Alter Casing	/_/	Water Shut-off	/_/	Repairing Well	/XX/
Fracture Treat	/_/	Multiple Complete	/_/	Fracture Treatment	/_/	Altering Casing	/_/
Shoot or Acidize	/_/	Abandon *	/_/	Shooting/Acidizing	/_/	Abandonment *	/_/
Repair Well	/ /	Change Plans	/_/	(Other)	/_/		
(Other)			/_/	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)			

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zone pertinent to this work) *

This notice is a subsequent report to the verbal approval received week ending 1-5-90 to repair the subject well and return it to injection. A packer leak was detected and the downhole equipment was replaced with new 2-7/8" cement lined tubing, a new on/off tool, shut-off valve, and a new Baker 45B Inverted Lockset packer with packer tail set at 5147'. The casing/tubing annulus was filled with inhibited water and pressure tested to 1400psig. No leaks were detected and the well was returned to injection on 1-6-90.

18. I hereby certify that the foregoing is true and correct

Signed: Gregg A. Tripp Title: Engineer Date: January 15, 1990
Gregg A. Tripp

(This space for Federal or State office use)
APPROVED BY _____ TITLE: _____ DATE: _____
CONDITIONS OF APPROVAL, IF ANY:

UIC
GLH
DJJ
BGH
COMPUTER
MICROFILM
FILE

O'L
SLS
2. TAS
3. MICROFILM
4. UIC FILE

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Division of Oil, Gas and Mining

PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

[ ] Well File _____

_____

(Location) Sec___Twp___Rng___

(API No.) _____

[ ] Suspense

(Return Date) _____

(To - Initials) _____

XXX Other

OPER NM CHG

_____

_____

1. Date of Phone Call: 8-3-95 Time: _____

2. DOGM Employee (name) L. CORDOVA (Initiated Call [ ])

Talked to:

Name R. J. FIRTH (Initiated Call XX) - Phone No. ( )

of (Company/Organization) _____

3. Topic of Conversation: M E P N A / N7370

4. Highlights of Conversation:

OPERATOR NAME IS BEING CHANGED FROM M E P N A (MOBIL EXPLORATION AND PRODUCING NORTH AMERICA INC) TO MOBIL EXPLOR & PROD. THE NAME CHANGE IS BEING DONE AT THIS TIME TO ALLEVIATE CONFUSION, BOTH IN HOUSE AND AMONGST THE GENERAL PUBLIC.

*SUPERIOR OIL COMPANY MERGED INTO M E P N A 4-24-86 (SEE ATTACHED).

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1-LEC	7-PL
2-LWP	8-SJ
3-DTS	9-FILE
4-VLC	
5-RJF	
6-LWP	

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

☐ Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator XXX Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: **8-2-95**)

TO (new operator)	FROM (former operator)
MOBIL EXPLOR & PROD	**M E P N A**
(address) **C/O MOBIL OIL CORP**	(address) **C/O MOBIL OIL CORP**
PO DRAWER G	**PO DRAWER G**
CORTEZ CO 81321	**CORTEZ CO 81321**
phone **(303) 564-5212**	phone **(303)564-5212**
account no. **N7370**	account no. **N7370**

Well(s) (attach additional page if needed):

Name: **** SEE ATTACHED ****	API: 037-16342	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:

OPERATOR CHANGE DOCUMENTATION

N/A 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form).

N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).

N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) _____ If yes, show company file number: _____.

N/A 4. **(For Indian and Federal Wells ONLY)** The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.

Lec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (8-3-95)

Lwp 6. Cardex file has been updated for each well listed above. 8-31-95

Lwp 7. Well file labels have been updated for each well listed above. 9-28-95

Lec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (8-3-95)

Lec 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

OPERATOR CHANGE WORKSHEET (CONTINUED) Initial each item when completed. Write N/A if item is not applicable.

ENTITY REVIEW

Lec 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ___ (If entity assignments were changed, attach copies of Form 6, Entity Action Form).

N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only) * No Fee Lease Wells at this time!

N/A/Lec 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.

___ 2. A copy of this form has been placed in the new and former operators' bond files.

___ 3. The former operator has requested a release of liability from their bond (yes/no) ___. Today's date _____ 19___. If yes, division response was made by letter dated _____ 19___.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

N/A 1. (Rule R615-2-10) The former operator/lessee of any **fee lease** well listed above has been notified by letter dated _____ 19___, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
DTS 8/5/95

N/A 2. Copies of documents have been sent to State Lands for changes involving **State leases.**

FILMING

✓ 1. All attachments to this form have been microfilmed. Date: October 6 1995.

FILING

___ 1. Copies of all attachments to this form have been filed in each well file.

___ 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

950803 WIC F5 / Not necessary!

ExxonMobil Production Compa
U.S. West
P.O. Box 4358
Houston, Texas 77210-4358

June 27, 2001

ExxonMobil
Production

Mr. Jim Thompson
State of Utah, Division of Oil, Gas and Mining
1549 West North Temple
Suite 1210
Salt Lake City, UT 84114-5801

Change of Name – Mobil Oil Corporation to
ExxonMobil Oil Corporation

Dear Mr. Thompson

Effective June 1, 2001, Mobil Oil Corporation (MOC) changed its name to ExxonMobil Oil Corporation (EMOC). This was a name change only; EMOC is the same corporation as Mobil Oil Corporation, but with a new name. No facility or other asset was transferred from one corporation to another by virtue of the name change. Specifically, EMOC will remain the owner and operator of its existing exploration and production oil and gas properties and facilities, as well as relevant permits.

There is no change to the name of Exxon Mobil Corporation, the ultimate shareholder of EMOC.

Please note the change of name of MOC to ExxonMobil Oil Corporation in your records pertaining to any MOC permits.

The Federal Identification Number for MOC (13-5401570) will remain the same for EMOC.

A copy of the Certification, Bond Rider and a list of wells are attached.

If you have any questions please feel free to call Joel Talavera at 713-431-1010

Very truly yours,
Charlotte H Harper

Charlotte H. Harper
Permitting Supervisor

ExxonMobil Production Company
a division of Exxon Mobil Corporation,
acting for ExxonMobil Oil Corporation

United States Department of the Interior

IN REPLY REFER TO:

BUREAU OF INDIAN AFFAIRS
~~XXXXXXXXXXXXXXXX~~
Navajo Area Office
NAVAJO REGION
P.O. Box 1060
Gallup, New Mexico 87305-1060

AUG 30 2001

RRES/543

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Charlotte H. Harper, Permitting Supervisor
Exxon Mobil Production Company
U. S. West
P. O. Box 4358
Houston, TX 77210-4358

Dear Ms. Harper:

This is to acknowledge receipt of your company's name change from Mobil Oil Corporation to ExxonMobil Oil Corporation effective June 1, 2001. The receipt of documents includes the Name Change Certification, current listing of Officers and Directors, Listing of Leases, Financial Statement, filing fees of $75.00 and a copy of the Rider for Bond Number 8027 31 97. There are no other changes.

Please note that we will provide copies of these documents to other concerned parties. If you need further assistance, you may contact Ms. Bertha Spencer, Realty Specialist, at (928) 871-5938.

Sincerely,

DENNIS DENETSONE

Regional Realty Officer

cc: BLM, Farmington Field Office w/enclosures
Navajo Nation Minerals Office, Attn: Mr. Akhtar Zaman, Director/w enclosures

MINERAL RESOURCES
ADM BLM
NATV AM MIN COORD
SOLID MIN TEAM
PETRO MGMT TEAM
O & G INSPECTN TEAM
ALL TEAM LEADERS
LAND RESOURCES
ENVIRONMENT
FILES

ExxonMobil Production Company
U.S. West
P.O. Box 4358
Houston, Texas 77210-4358

FOR 7/12/2001 GN 543 File

June 27, 2001

ExxonMobil Production

Certified Mail
Return Receipt Requested

Ms. Genni Denetsone
United States Department of the Interior
Bureau of Indian Affairs, Navajo Region
Real Estate Services
P. O. Box 1060
Gallup, New Mexico 87305-1060
Mail Code 543

Change of Name –
Mobil Oil Corporation to
ExxonMobil Oil Corporation

Dear Ms. Denetsone:

Effective June 1, 2001, Mobil Oil Corporation (MOC) changed its name to ExxonMobil Oil Corporation (EMOC). This was a name change only; EMOC is the same corporation as Mobil Oil Corporation, but with a new name. No facility or other asset was transferred from one corporation to another by virtue of the name change. Specifically, EMOC will remain the owner and operator of its existing exploration and production oil and gas properties and facilities, as well as relevant permits.

There is no change to the name of Exxon Mobil Corporation, the ultimate shareholder of EMOC.

Please note the change of name of MOC to ExxonMobil Oil Corporation in your records pertaining to any MOC permits.

The Federal Identification Number for MOC (13-5401570) will remain the same for EMOC.

Attached is the Name Change Certification, Current listing of Officers and Directors, Filing Fee of $75/-, Listing of Leases, Financial Statement and a copy of the Rider for Bond number 8027 31 97. The original Bond Rider has been sent to Ms. Barbar Davis at your Washington Office.

If you have any questions , please contact Alex Correa at (713) 431-1012.

Very truly yours,

Charlotte H. Harper

Charlotte H. Harper
Permitting Supervisor

Attachments

ExxonMobil Production Company
a division of Exxon Mobil Corporation,
acting for ExxonMobil Oil Corporation

NOTE: Check forwarded to Ella Isaac

Bureau of Indian Affairs
Navajo Region Office
Attn: RRES - Mineral and Mining Section
P.O. Box 1060
Gallup, New Mexico 87305-1060

Gentlemen:

The current listing of officers and director of ExxonMobil Oil Corporation (Name of Corporation), of New York (State) is as follows:

OFFICERS

President	F.A. Risch	Address	5959 Las Colinas Blvd. Irving, TX 75039
Vice President	K.T. Koonce	Address	800 Bell Street Houston, TX 77002
Secretary	F.L. Reid	Address	5959 Las Colinas Blvd. Irving, TX 75039
Treasure	B.A. Maher	Address	5959 Las Colinas Blvd. Irving, TX 75039

DIRECTORS

Name	D.D. Humphreys	Address	5959 Las Colinas Blvd. Irving, TX 75039
Name	P.A. Hanson	Address	5959 Las Colinas Blvd. Irving, TX 75039
Name	T.P. Townsend	Address	5959 Las Colinas Blvd. Irving, TX 75039
Name	B.A. Maher	Address	5959 Las Colinas Blvd. Irving, TX 75039
Name	F.A. Risch	Address	5959 Las Colinas Blvd. Irving, TX 75039

Sincerely,

Alex Correa

This is to certify that the above information pertaining to ExxonMobil Oil Corporation (Corporation) is trust and correct as evidenced by the records and accounts covering business for the State of Utah and in the custody of Corporation Service Company (Agent), Phone: 1 (800)927-9800, whose business address is One Utah Center, 201 South Main Street, Salt Lake City, Utah 84111-2218

(CORPORATE SEAL)

Signature

AGENT AND ATTORNEY IN FACT
Title

SAL

CERTIFICATION

I, the undersigned Assistant Secretary of ExxonMobil Oil Corporation. (formerly Mobil Oil Corporation), a corporation organized and existing under the laws of the State of New York, United States of America, DO HEREBY CERTIFY, That, the following is a true and exact copy of the resolutions adopted by the Board of Directors on May 22, 2001:

CHANGE OF COMPANY NAME

WHEREAS, the undersigned Directors of the Corporation deem it to be in the best interest of the Corporation to amend the Certificate of Incorporation of the Corporation to change the name and principal office of the Corporation:

NOW THEREFORE BE IT RESOLVED, That Article 1st relating to the corporate name is hereby amended to read as follows:

"1st The corporate name of said Company shall be,

ExxonMobil Oil Corporation",

FURTHER RESOLVED, That the amendment of the Corporation's Certificate of Incorporation referred to in the preceding resolutions be submitted to the sole shareholder of the Corporation entitled to vote thereon for its approval and, if such shareholder gives its written consent, pursuant to Section 803 of the Business Corporation Law of the State of New York, approving such amendment, the proper officers of the Corporation be, and they hereby are, authorized to execute in the name of the Corporation the Certificate of Amendment of Certificate of Incorporation, in the form attached hereto;

FURTHER RESOLVED, That the proper officers of the Corporation be and they hereby are authorized and directed to deliver, file and record in its behalf, the Certificate of Amendment of Certificate of Incorporation, and to take such action as may be deemed necessary or advisable to confirm and make effective in all respects the change of this Company's name to EXXONMOBIL OIL CORPORATION.

WITNESS, my hand and the seal of the Corporation at Irving, Texas, this 8th day of June, 2001.

S. A. Millican
Assistant Secretary

COUNTY OF DALLAS)
STATE OF TEXAS)
UNITED STATES OF AMERICA)
Sworn to and subscribed before me at Irving, Texas, U. S. A. on this the 8th day of June, 2001.

Janice M. Phillips
Notary Public

LISTING OF LEASES OF MOBIL OIL CORPORATION

	Lease Number
1)	14-20-0603-6504
2)	14-20-0603-6505
3)	14-20-0603-6506
4)	14-20-0603-6508
5)	14-20-0603-6509
6)	14-20-0603-6510
7)	14-20-0603-7171
8)	14-20-0603-7172A
9)	14-20-600-3530
10)	14-20-603-359
11)	14-20-603-368
12)	14-20-603-370
13)	14-20-603-370A
14)	14-20-603-372
15)	14-20-603-372A
16)	14-20-603-4495
17)	14-20-603-5447
18)	14-20-603-5448
19)	14-20-603-5449
20)	14-20-603-5450
21)	14-20-603-5451

6/1/01

CHUBB GROUP OF INSURANCE COMPANIES

[illegible] South, Suite 1400, Houston, Texas 77027-3301
[illegible] 713) 297-4600 • Facsimile: (713) 297-4750

NW Bond

FEDERAL INSURANCE COMPANY RIDER
to be attached to and form a part of

BOND NO 8027 31 97
wherein
Mobil Oil Corporation and Mobil Exploration and Producing U.S., Inc. is named as Principal and

FEDERAL INSURANCE COMPANY AS SURETY,

in favor of United States of America, Department of the Interior Bureau of Indian Affairs

in the amount of **$150,000.00**
bond date: 11/01/65

IT IS HEREBY UNDERSTOOD AND AGREED THAT effective **June 1, 2001** the name of the Principal is changed

FROM: **Mobil Oil Corporation and Mobil Exploration and Producing U.S., Inc.**

TO : **ExxonMobil Oil Corporation**

All other terms and conditions of this Bond are unchanged.

Signed, sealed and dated this 12th of June, 2001.

ExxonMobil Oil Corporation

By: _____

FEDERAL INSURANCE COMPANY

By: Mary Pierson
Mary Pierson, Attorney-in-fact

Chubb Surety	POWER OF ATTORNEY	Federal Insurance Company Vigilant Insurance Company Pacific Indemnity Company	Attn.: Surety Department 15 Mountain View Road Warren, NJ 07059

Know All by These Presents, That FEDERAL INSURANCE COMPANY, an Indiana corporation, VIGILANT INSURANCE COMPANY, a New York corporation, and PACIFIC INDEMNITY COMPANY, a Wisconsin corporation, do each hereby constitute and appoint R.F. Bobo, Mary Pierson, Philana Berros, and Jody E. Specht of Houston, Texas----------

each as their true and lawful Attorney-in-Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than bail bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations.

In Witness Whereof, said FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY have each executed and attested these presents and affixed their corporate seals on this 10th day of May, 2001.

Kenneth C. Wendel, Assistant Secretary

Frank E. Robertson, Vice President

STATE OF NEW JERSEY }
County of Somerset } ss.

On this 10th day of May, 2001, before me, a Notary Public of New Jersey, personally came Kenneth C. Wendel, to me known to be Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY, the companies which executed the foregoing Power of Attorney, and the said Kenneth C. Wendel being by me duly sworn, did depose and say that he is Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY and knows the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of the By-Laws of said Companies; and that he signed said Power of Attorney as Assistant Secretary of said Companies by like authority; and that he is acquainted with Frank E. Robertson, and knows him to be Vice President of said Companies; and that the signature of Frank E. Robertson, subscribed to said Power of Attorney is in the genuine handwriting of Frank E. Robertson, and was thereto subscribed by authority of said Companies and in deponent's presence.

Karen A. Price

Notarial Seal
KAREN A. PRICE NOTARY PUBLIC NEW JERSEY

Notary Public State of New Jersey
No. 2231647
Commission Expires Oct. 28, 2004

Karen A. Price
Notary Public

CERTIFICATION

Extract from the By-Laws of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY:

"All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company, either by the Chairman or the President or a Vice President or an Assistant Vice President, jointly with the Secretary or an Assistant Secretary, under their respective designations. The signature of such officers may be engraved, printed or lithographed. The signature of each of the following officers: Chairman, President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached."

I, Kenneth C. Wendel, Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY (the "Companies") do hereby certify that

(i) the foregoing extract of the By-Laws of the Companies is true and correct,
(ii) the Companies are duly licensed and authorized to transact surety business in all 50 of the United States of America and the District of Columbia and are authorized by the U. S. Treasury Department; further, Federal and Vigilant are licensed in Puerto Rico and the U. S. Virgin Islands, and Federal is licensed in American Samoa, Guam, and each of the Provinces of Canada except Prince Edward Island; and
(iii) the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Warren, NJ this 12th day of June, 2001.

FEDERAL INSURANCE COMPANY · INDIANA ·
PACIFIC INDEMNITY COMPANY INCORPORATED JUL. 16, 1937 WISCONSIN
VIGILANT INSURANCE COMPANY · NEW YORK ·

Kenneth C. Wendel, Assistant Secretary

IN THE EVENT YOU WISH TO NOTIFY US OF A CLAIM, VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT ADDRESS LISTED ABOVE, OR BY
Telephone (908) 903-3485 Fax (908) 903-3656 e-mail: surety@chubb.com

15-10-0225 (Ed. 4-99) CONSENT

F010601000187

CSC 45

CERTIFICATE OF AMENDMENT

OF

CERTIFICATE OF INCORPORATION

OF

MOBIL OIL CORPORATION

(Under Section 805 of the Business Corporation Law)

Pursuant to the provisions of Section 805 of the Business Corporation Law, the undersigned President and Secretary, respectively, of Mobil Oil Corporation hereby certify:

FIRST: That the name of the corporation is MOBIL OIL CORPORATION and that said corporation was incorporated under the name of Standard Oil Company of New York.

SECOND: That the Certificate of Incorporation of the corporation was filed by the Department of State, Albany, New York, on the 10th day of August, 1882.

THIRD: That the amendments to the Certificate of Incorporation effected by this Certificate are as follows:

(a) Article 1st of the Certificate of Incorporation, relating to the corporate name, is hereby amended to read as follows:

"1st: The corporate name of said Company shall be,

ExxonMobil Oil Corporation",

(b) Article 7th of the Certificate of Incorporation, relating to the office of the corporation is hereby amended to read as follows:

The office of the corporation within the State of New York is to be located in the County of Albany. The Company shall have offices at such other places as the Board of Directors may from time to time determine.

FOURTH: That the amendments to the Certificate of Incorporation were authorized by the Board of Directors followed by the holder of all outstanding shares entitled to vote on amendments to the Certificate of Incorporation by written consent of the sole shareholder dated May 22, 2001.

IN WITNESS WHEREOF, this Certificate has been signed this 22nd Day of May, 2001.

F. A. Risch, President

STATE OF TEXAS)
COUNTY OF DALLAS)

F. L. REID, being duly sworn, deposes and says that he is the Secretary of MOBIL OIL CORPORATION, the corporation mentioned and described in the foregoing instrument; that he has read and signed the same and that the statements contained therein are true.

F. L. REID, Secretary

SUBSCRIBED AND SWORN TO before me, the undersigned authority, on this the 22nd day of May, 2001.

[SEAL]

NOTARY PUBLIC, STATE OF TEXAS

JANICE M. PHILLIPS
MY COMMISSION EXPIRES
May 16, 2002

CSC 5184334741 06/01 '01 09:01 NO.411 02/02
CSC 06/01 '01 09:06 NO.133 04/04

F010601000187

CSC 45

CERTIFICATE OF AMENDMENT

OF

MOBIL OIL CORPORATION

Under Section 805 of the Business Corporation Law

SRC

100 cc

STATE OF NEW YORK
DEPARTMENT OF STATE
FILED JUN 01 2001
TAX $
BY: SRC

Filed by: EXXONMOBIL CORPORATION
(Name)

5959 Las Colinas Blvd.
(Mailing address)

Irving, TX 75039-2298
(City, State and Zip code)

Cust Ref # 1655781MPS

RECEIVED
JUL 05 2001
REAL ESTATE SERVICES

010601000195

State of New York }
Department of State } ss:

I hereby certify that the annexed copy has been compared with the original document in the custody of the Secretary of State and that the same is a true copy of said original.

Witness my hand and seal of the Department of State on JUN 01 2001

STATE OF NEW YORK ★ DEPARTMENT OF STATE ★

Special Deputy Secretary of State

DOS-1266 (7/00)

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. GLH
2. CDW
3. FILE

Change of Operator (Well Sold) — Designation of Agent

X Operator Name Change — Merger

The operator of the well(s) listed below has changed, effective: **06-01-2001**

FROM: (Old Operator):	**TO:** (New Operator):
MOBIL EXPLORATION & PRODUCTION	EXXONMOBIL OIL CORPORATION
Address: P O BOX DRAWER "G"	Address: U S WEST P O BOX 4358
CORTEZ, CO 81321	HOUSTON, TX 77210-4358
Phone: 1-(970)-564-5212	Phone: 1-(713)-431-1010
Account No. N7370	Account No. N1855

CA No. **Unit:** **MCELMO CREEK**

WELL(S)

NAME	SEC TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
NAVAJO 2-D (MCELMO A-17)	10-41S-24E	43-037-16338	99990	INDIAN	WI	A
MCELMO CR C-18	11-41S-24E	43-037-15702	5980	INDIAN	WI	A
NAVAJO H-2 (MCELMO D-17)	11-41S-24E	43-037-15704	99990	INDIAN	WI	A
NAVAJO D-2 (MCELMO E-19)	11-41S-24E	43-037-16342	99990	INDIAN	WI	A
MCELMO CR G-18	12-41S-24E	43-037-15494	5980	INDIAN	WI	A
MCELMO CREEK I-18	12-41S-24E	43-037-15709	5980	INDIAN	WI	A
MCELMO CREEK I-20	12-41S-24E	43-037-15710	5980	INDIAN	WI	A
NAVAJO TRACT 13-4 (MCELMO F-17)	12-41S-24E	43-037-15493	99990	INDIAN	WI	A
NAVAJO TRACT 13-3 (MCELMO H-17)	12-41S-24E	43-037-15496	99990	INDIAN	WI	A
NAVAJO J-2 (MCELMO G-19)	12-41S-24E	43-037-16346	99990	INDIAN	WI	A
NAVAJO E 23-13 (MCELMO G-23)	13-41S-24E	43-037-16348	99990	INDIAN	WI	A
MCELMO CREEK UNIT I-23	13-41S-24E	43-037-16352	99990	INDIAN	WI	A
MCELMO CR G-21A	13-41S-24E	43-037-30974	5980	INDIAN	WI	A
NAVAJO E 41-14 (MCELMO E-21)	14-41S-24E	43-037-16343	99990	INDIAN	WI	A
NAVAJO E 43-14 (MCELMO E-23)	14-41S-24E	43-037-16344	99990	INDIAN	WI	A
MCELMO CREEK G-25	24-41S-24E	43-037-16349	99996	INDIAN	WI	A
MCELMO CREEK U I-25	24-41S-24E	43-037-16353	99990	INDIAN	WI	A
NAVAJO P-12 (MCELMO V-13)	03-41S-25E	43-037-16383	99990	INDIAN	WI	A
NAVAJO P-10 (MCELMO V-15)	03-41S-25E	43-037-16384	99990	INDIAN	WI	A
MCELMO CREEK S-14	04-41S-25E	43-037-16151	5980	INDIAN	WI	A

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 06/29/2001
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 06/29/2001
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database on:** 04/09/2002
4. Is the new operator registered in the State of Utah: YES Business Number: 579865-0143
5. If **NO**, the operator was contacted contacted on: N/A

6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BIA-06/01/01

7. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: 06/01/2001

8. **Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A

9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 04/16/2002
NOTE: EPA ISSUES UIC PERMITS

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 04/16/2002
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 04/16/2002
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: N/A

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: N/A

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 80273197

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number N/A
2. The **FORMER** operator has requested a release of liability from their bond on: N/A
The Division sent response by letter on: N/A

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

COMMENTS:

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. DJJ
2. CDW

X Change of Operator (Well Sold) Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective: **6/1/2006**

FROM: (Old Operator):	**TO:** (New Operator):
N1855-ExxonMobil Oil Corporation	N2700-Resolute Natural Resources Company
PO Box 4358	1675 Broadway, Suite 1950
Houston, TX 77210-4358	Denver, CO 80202
Phone: 1 (281) 654-1936	Phone: 1 (303) 534-4600

CA No. **Unit:** **MC ELMO (UIC)**

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/21/2006
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/24/2006
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 6/7/2006
4. Is the new operator registered in the State of Utah: YES Business Number: 5733505-0143
5. If **NO**, the operator was contacted contacted on:

6a. (R649-9-2)Waste Management Plan has been received on: requested

6b. Inspections of LA PA state/fee well sites complete on: n/a

6c. Reports current for Production/Disposition & Sundries on: ok

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM n/a BIA not yet
8. **Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: not yet
9. **Federal and Indian Communization Agreements ("CA"):** The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 6/12/2006

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 6/22/2006
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 6/22/2006
3. Bond information entered in RBDMS on: n/a
4. Fee/State wells attached to bond in RBDMS on: n/a
5. Injection Projects to new operator in RBDMS on: 6/22/2006
6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: n/a
2. Indian well(s) covered by Bond Number: PA002769
3. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number n/a

a. The **FORMER** operator has requested a release of liability from their bond on: n/a
The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

4. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ship Rock

7. UNIT or CA AGREEMENT NAME: UTU68930A

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER Injection

8. WELL NAME and NUMBER: McElmo Creek

2. NAME OF OPERATOR: ExxonMobil Oil Corporation N1855

9. API NUMBER: attached

3. ADDRESS OF OPERATOR: P.O. Box 4358 CITY Houston STATE TX ZIP 77210-4358

PHONE NUMBER: (281) 654-1936

10. FIELD AND POOL, OR WILDCAT: Aneth

4. LOCATION OF WELL

FOOTAGES AT SURFACE:

COUNTY: San Juan

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 6/1/2006	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☑ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

ExxonMobil Oil Corporation is transferring operatorship of Greater Aneth field, McElmo Creek lease to Resolute Natural Resources Company. All change of operator notices should be made effective as of 7:00 AM MST on June 1, 2006.

Attached please find a listing of injection wells included in the transfer.

NAME (PLEASE PRINT) Laurie Kilbride TITLE Permitting Supervisor

SIGNATURE Laurie B. Kilbride DATE 4/19/2006

(This space for State use only)

APPROVED 6/22/06
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

RECEIVED
APR 21 2006
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

GREATER ANETH FIELD UIC WELL LIST
McElmo Creek lease, San Juan County, Utah

Reg Lease Name	Well ID	API Num	Status	Reg Lease #	Surface Location						
					Qtr 1	Qtr 2	Sec	TN	RNG	NS Foot	EW Foot
MCELMO CREEK	H11	430371635000S1	Active	14-20-0603-6145	NW	SE	36	40S	24E	1855FSL	2100FEL
MCELMO CREEK	I12	430371561900S1	Active	14-20-0603-6145	SE	SE	36	40S	24E	0595FSL	0595FEL
MCELMO CREEK	F11	430371561700S1	Shut-in	14-20-0603-6146	NW	SW	36	40S	24E	1885FSL	0820FWL
MCELMO CREEK	G12	430371561800S1	Active	14-20-0603-6146	SE	SW	36	40S	24E	1910FNL	2051FWL
MCELMO CREEK	D15	430371634100S1	Active	14-20-0603-6147	NW	SE	2	41S	24E	1830FSL	1830FEL
MCELMO CREEK	A17	430371633800S1	Active	14-20-0603-6148	NE	NE	10	41S	24E	1270FNL	0660FEL
MCELMO CREEK	C14	430371626500S1	Active	14-20-0603-6509	SE	NW	2	41S	24E	2140FNL	2140FWL
MCELMO CREEK	D13	430371626700S1	Active	14-20-0603-6510	NW	NE	2	41S	24E	0820FNL	1920FEL
MCELMO CREEK	E14	430371626800S1	Active	14-20-0603-6510	SE	NE	2	41S	24E	2050FNL	0500FEL
MCELMO CREEK	T08	430371637700S1	Shut-in	14-20-603-2048A	SW	SE	28	40S	25E	0660FSL	1980FEL
MCELMO CREEK	R09	430371614700S1	Active	14-20-603-2057	NW	NW	33	40S	25E	0500FNL	0625FWL
MCELMO CREEK	R11A	4303730179000S1	Active	14-20-603-2057	NW	SW	33	40S	25E	2030FSL	0680FWL
MCELMO CREEK	R13	430371614800S1	Active	14-20-603-2057	NW	NW	4	41S	25E	0660FNL	0660FWL
MCELMO CREEK	R15	430371614900S1	Active	14-20-603-2057	NW	SW	4	41S	25E	1990FSL	0500FWL
MCELMO CREEK	S10	430371637500S1	Active	14-20-603-2057	SE	NW	33	40S	25E	1980FNL	1980FWL
MCELMO CREEK	S12	430371615000S1	Active	14-20-603-2057	SE	SW	33	40S	25E	0645FSL	2140FWL
MCELMO CREEK	S14	430371615100S1	Active	14-20-603-2057	SE	NW	4	41S	25E	2005FNL	1820FWL
MCELMO CREEK	S16	430371615200S1	Active	14-20-603-2057	SE	SW	4	41S	25E	0700FSL	1820FWL
MCELMO CREEK	T09A	430373008000S1	Active	14-20-603-2057	NW	NE	33	40S	25E	0940FNL	2035FEL
MCELMO CREEK	T13	430371637800S1	Active	14-20-603-2057	NW	NE	4	41S	25E	0500FNL	2090FEL
MCELMO CREEK	T15	430371637900S1	Active	14-20-603-2057	NW	SE	4	41S	25E	1880FSL	1890FEL
MCELMO CREEK	U10	430371638100S1	Active	14-20-603-2057	SE	NE	33	40S	25E	1980FNL	0610FSL
MCELMO CREEK	U12	430371615500S1	Active	14-20-603-2057	SE	SE	33	40S	25E	0660FSL	0805FEL
MCELMO CREEK	U14	430371615600S1	Active	14-20-603-2057	SE	NE	4	41S	25E	1980FNL	0660FEL
MCELMO CREEK	U16	430371615700S1	Active	14-20-603-2057	SE	SE	4	41S	25E	0550FSL	0745FEL
MCELMO CREEK	V13	430371638300S1	Active	14-20-603-2057	NW	NW	3	41S	25E	0660FNL	0660FWL
MCELMO CREEK	V15	430371638400S1	Active	14-20-603-2057	NW	SW	3	41S	25E	1980FSL	0560FWL
MCELMO CREEK	J17	430371549800S1	Active	14-20-603-263	NW	NW	7	41S	25E	0820FNL	0550FWL
MCELMO CREEK	J19	430371635600S1	Active	14-20-603-263	NW	SW	7	41S	25E	2056FNL	1997FWL
MCELMO CREEK	J21	430371549900S1	Active	14-20-603-263	NW	NW	18	41S	25E	0400FNL	0575FWL
MCELMO CREEK	K18	430371635700S1	Active	14-20-603-263	SE	NW	7	41S	25E	1830FNL	1808FWL
MCELMO CREEK	K20	430371550300S1	Active	14-20-603-263	SE	SW	7	41S	25E	0660FSL	1810FWL
MCELMO CREEK	K22X	430373040000S1	Active	14-20-603-263	SE	NW	18	41S	25E	2082FNL	1588FWL
MCELMO CREEK	K24	430371635800S1	Active	14-20-603-263	SE	SW	18	41S	25E	0660FSL	1801FWL
MCELMO CREEK	L17	430371636000S1	Active	14-20-603-263	NW	NE	7	41S	25E	0660FNL	1980FEL
MCELMO CREEK	L19	430371550500S1	Active	14-20-603-263	NW	SE	7	41S	25E	1860FSL	2140FEL
MCELMO CREEK	L21	430371550600S1	Active	14-20-603-263	NW	NE	18	41S	25E	0820FNL	1980FEL
MCELMO CREEK	L23	430371550700S1	Active	14-20-603-263	NW	SE	18	41S	25E	1980FSL	1980FEL
MCELMO CREEK	M18	430371551000S1	Active	14-20-603-263	SE	NE	7	41S	25E	1850FNL	0790FEL
MCELMO CREEK	M20	430371551100S1	Shut-in	14-20-603-263	SE	SE	7	41S	25E	0660FSL	0660FEL
MCELMO CREEK	N17	430371551400S1	Active	14-20-603-263	NW	NW	8	41S	25E	0810FNL	0660FWL
MCELMO CREEK	N19	430371551500S1	Active	14-20-603-263	NW	SW	8	41S	25E	1850FSL	0500FWL
MCELMO CREEK	N21	430371551600S1	Active	14-20-603-263	NW	NW	17	41S	25E	0660FNL	0660FWL
MCELMO CREEK	O18	430371551700S1	Active	14-20-603-263	SE	NW	8	41S	25E	1830FNL	1890FWL
MCELMO CREEK	P17	430371551900S1	Active	14-20-603-263	NW	NE	8	41S	25E	0660FNL	1980FEL

GREATER ANETH FIELD UIC WELL LIST
McElmo Creek lease, San Juan County, Utah

Reg Lease Name	Well ID	API Num	Status	Reg Lease #	Surface Location						
					Qtr 1	Qtr 2	Sec	TN	RNG	NS Foot	EW Foot
MCELMO CREEK	P19	430371552000S1	Active	14-20-603-263	NW	SE	8	41S	25E	2140FSL	1980FEL
MCELMO CREEK	P21	430371636900S1	Active	14-20-603-263	NW	NE	17	41S	25E	0660FNL	1980FEL
MCELMO CREEK	P23A	430373143900S1	Active	14-20-603-263	SW	NE	17	41S	25E	2531FNL	2325FEL
MCELMO CREEK	L25	430371550800S1	Active	14-20-603-264	NW	NE	19	41S	25E	0660FNL	1980FEL
MCELMO CREEK	R17	430371597600S1	Active	14-20-603-359	NW	NW	9	41S	25E	0740FNL	0560FWL
MCELMO CREEK	R19	430371637300S1	Active	14-20-603-359	NW	SW	9	41S	25E	1980FSL	0660FWL
MCELMO CREEK	R21	430371637400S1	Active	14-20-603-359	NW	NW	16	41S	25E	0511FNL	0562FWL
MCELMO CREEK	T17	430371638000S1	Active	14-20-603-359	NW	NE	9	41S	25E	0675FNL	1933FEL
MCELMO CREEK	E21	430371634300S1	Active	14-20-603-370	NE	NE	14	41S	24E	0660FNL	0660FEL
MCELMO CREEK	E23	430371634400S1	Active	14-20-603-370	NE	SE	14	41S	24E	2031FSL	0711FEL
MCELMO CREEK	G21A	430373097400S1	Active	14-20-603-370	NE	NW	13	41S	24E	0867FNL	1883FWL
MCELMO CREEK	G23	430371634800S1	Shut-in	14-20-603-370	NE	SW	13	41S	24E	2092FSL	1899FWL
MCELMO CREEK	G25	430371634900S1	Active	14-20-603-370	NE	NW	24	41S	24E	0660FNL	1980FWL
MCELMO CREEK	I23	430371635200S1	Active	14-20-603-370	NE	SE	13	41S	24E	1980FSL	0660FEL
MCELMO CREEK	I25	430371635300S1	Active	14-20-603-370	NE	NE	24	41S	24E	0530FNL	0820FEL
MCELMO CREEK	J11	430371635400S1	TA'd	14-20-603-372	NW	SW	31	40S	25E	1980FSL	0660FWL
MCELMO CREEK	J13	430371635500S1	Active	14-20-603-372	NW	NW	6	41S	25E	0621FNL	0580FWL
MCELMO CREEK	J15	430371595400S1	Active	14-20-603-372	NW	SW	6	41S	25E	1980FSL	0500FWL
MCELMO CREEK	K12	430371595500S1	Active	14-20-603-372	SW	SW	31	40S	25E	0670FSL	1970FWL
MCELMO CREEK	K14	430371595600S1	Active	14-20-603-372	SE	NW	6	41S	25E	1851FNL	1885FWL
MCELMO CREEK	K16	430371595700S1	Active	14-20-603-372	SE	SW	6	41S	25E	0660FSL	1816FWL
MCELMO CREEK	L09	430371635900S1	Active	14-20-603-372	NW	NE	31	40S	25E	0660FNL	1980FEL
MCELMO CREEK	L13	430371595900S1	Active	14-20-603-372	NW	NE	6	41S	25E	0778FNL	1917FEL
MCELMO CREEK	L15	430371596000S1	Active	14-20-603-372	NW	SE	6	41S	25E	1820FSL	1830FEL
MCELMO CREEK	M10	430371596100S1	Shut-in	14-20-603-372	SE	NE	31	40S	25E	1980FNL	0530FEL
MCELMO CREEK	M12	430371596200S1	Active	14-20-603-372	SE	SE	31	40S	25E	0590FSL	0585FEL
MCELMO CREEK	M14	430371596300S1	Active	14-20-603-372	SE	NE	6	41S	25E	2089FNL	0773FEL
MCELMO CREEK	M16	430371636100S1	Active	14-20-603-372	SE	SE	6	41S	25E	0660FSL	0660FEL
MCELMO CREEK	N09	430371596400S1	Shut-in	14-20-603-372	NW	NW	32	40S	25E	0628FNL	0615FWL
MCELMO CREEK	N11	430371596500S1	Active	14-20-603-372	NW	SW	32	40S	25E	2069FSL	0618FWL
MCELMO CREEK	N13	430371596600S1	Active	14-20-603-372	NW	NW	5	41S	25E	0840FNL	0505FWL
MCELMO CREEK	N15	430371636300S1	Active	14-20-603-372	NW	SW	5	41S	25E	2140FSL	820FWL
MCELMO CREEK	O12	430371596800S1	Active	14-20-603-372	SE	SW	32	40S	25E	0809FSL	1832FWL
MCELMO CREEK	O14	430371636500S1	Active	14-20-603-372	SE	NW	5	41S	25E	2056FNL	1997FWL
MCELMO CREEK	O16	430371596900S1	Active	14-20-603-372	SE	SW	5	41S	25E	0660FSL	1980FWL
MCELMO CREEK	P09	430371636700S1	Active	14-20-603-372	NW	NE	32	40S	25E	0598FNL	2100FEL
MCELMO CREEK	P11	430371597101S2	Active	14-20-603-372	NW	SE	32	40S	25E	2105FSL	2006FEL
MCELMO CREEK	P13	430371636800S1	Active	14-20-603-372	NW	NE	5	41S	25E	0610FNL	1796FWL
MCELMO CREEK	P15	430371597200S1	Active	14-20-603-372	NW	SE	5	41S	25E	1980FSL	1980FEL
MCELMO CREEK	Q10	430371597301S1	Active	14-20-603-372	SE	NE	32	40S	25E	1899FNL	0532FEL
MCELMO CREEK	Q16	430371597500S1	TA'd	14-20-603-372	SE	SE	5	41S	25E	0660FSL	0660FEL
MCELMO CREEK	F13	430371634500S1	Active	14-20-603-4032	NW	NW	1	41S	24E	0795FNL	0535FWL
MCELMO CREEK	F15A	430373114900S1	Active	14-20-603-4032	NW	SW	1	41S	24E	1920FSL	0624FWL
MCELMO CREEK	G14	430371614300S1	Active	14-20-603-4032	SE	NW	1	41S	24E	1980FNL	1980FWL
MCELMO CREEK	G16	430371614400S1	Active	14-20-603-4032	SE	SW	1	41S	24E	0820FSL	1820FWL
MCELMO CREEK	H13	430371635100S1	Active	14-20-603-4032	NW	NE	1	41S	24E	0540FNL	2110FEL
MCELMO CREEK	I-14	430371614500S1	Active	14-20-603-4032	SE	NE	1	41S	24E	1980FNL	0660FEL

GREATER ANETH FIELD UIC WELL LIST
McElmo Creek lease, San Juan County, Utah

Reg Lease Name	Well ID	API Num	Status	Reg Lease #	Surface Location						
					Qtr 1	Qtr 2	Sec	TN	RNG	NS Foot	EW Foot
MCELMO CREEK	F17	430371549300S1	Active	14-20-603-4039	NW	NW	12	41S	24E	0740FNL	0500FWL
MCELMO CREEK	G18	430371549400S1	Active	14-20-603-4039	SE	NW	12	41S	24E	1980FNL	1980FWL
MCELMO CREEK	H15	430371549500S1	Active	14-20-603-4039	NW	SE	1	41S	24E	1980FSL	1980FEL
MCELMO CREEK	H17	430371549600S1	Active	14-20-603-4039	NE	NW	12	41S	24E	0660FNL	1980FEL
MCELMO CREEK	I18	430371570900S1	Active	14-20-603-4495	SE	NE	12	41S	24E	1840FNL	0555FEL
MCELMO CREEK	E19	430371634200S1	Shut-in	14-20-603-5449	NE	SE	11	41S	24E	1980FSL	0660FEL
MCELMO CREEK	G19	430371634600S1	Active	14-20-603-5450	NE	SW	12	41S	24E	1350FSL	1800FWL
MCELMO CREEK	I20	430371571000S1	Active	14-20-603-5451	SE	SE	12	41S	24E	0990FSL	0500FEL
MCELMO CREEK	N07	430371636200S1	Active	I-149-IND-8839	NE	SW	29	40S	25E	2083FSL	745FWL
MCELMO CREEK	P07	430371636600S1	Active	I-149-IND-8839	NW	SE	29	40S	25E	1820FSL	2140FEL
MCELMO CREEK	O10	430371596700S1	Active	NOG99041325	SE	NW	32	40S	25E	2086FNL	1944FWL

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number	API Number
See attached list	Attached
Location of Well	Field or Unit Name
Footage : See attached list County : San Juan	McElmo Creek Unit
QQ, Section, Township, Range: State : UTAH	Lease Designation and Number: See attached list

EFFECTIVE DATE OF TRANSFER: 6/1/2006

CURRENT OPERATOR

Company: Exxon Mobil Oil Corporation
Address: PO Box 4358
city Houston state TX zip 77210-4358
Phone: (281) 654-1936

Name:
Signature:
Title:
Date:

Comments: Exxon Mobil has submitted a separate, signed copy of UIC Form 5

NEW OPERATOR

Company: Resolute Natural Resources Company
Address: 1675 Broadway, Suite 1950
city Denver state CO zip 80202
Phone: (303) 534-4600

Name: Dwight E Mallory
Signature:
Title: Regulatory Coordinator
Date: 4/20/2006

Comments: A list of affected UIC wells is attached.
New bond numbers for these wells are:
BIA Bond # PA002769 and US EPA Bond # B001252

(This space for State use only)

Transfer approved by:
Title: Field Operations Manager

Approval Date: 6/12/06

Comments:

RECEIVED
APR 24 2006
DIV. OF OIL, GAS & MINING

(5/2000)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: See attached list	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo Tribe	
7. UNIT or CA AGREEMENT NAME: McElmo Creek Unit	
1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER Unit Agreement	8. WELL NAME and NUMBER: See attached list
2. NAME OF OPERATOR: Resolute Natural Resources Company N2700	9. API NUMBER: Attached
3. ADDRESS OF OPERATOR: 1675 Broadway, Suite 1950 CITY Denver STATE CO ZIP 80202 / PHONE NUMBER: (303) 534-4600	10. FIELD AND POOL, OR WILDCAT: Greater Aneth
4. LOCATION OF WELL FOOTAGES AT SURFACE: See attached list QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:	COUNTY: San Juan STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start:	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☑ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective June 1, 2006 Exxon Mobil Oil Corporation resigns as operator of the McElmo Creek Unit. Also effective June 1, 2006 Resolute Natural Resources Company is designated as successor operator of the McElmo Creek Unit.

A list of affected producing and water source wells is attached. A separate of affected injection wells is being submitted with UIC Form 5, Transfer of Authority to Inject.

As of the effective date, bond coverage for the affected wells will transfer to BIA Bond # PA002769.

NAME (PLEASE PRINT) Dwight E Mallory TITLE Regulatory Coordinator

SIGNATURE [signature] DATE 4/20/2006

(This space for State use only)

APPROVED 6/22/06
Earlene Russell
Division of Oil, Gas and Mining (See Instructions on Reverse Side)
Earlene Russell, Engineering Technician

RECEIVED
APR 24 2006
DIV. OF OIL, GAS & MINING

(5/2000)

Form 3160-5
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OM B No. 1004-0137
Expires: March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160 - 3 (APD) for such proposals.

SUBMIT IN TRIPLICATE *- Other instructions on reverse side.*

5. Lease Serial No. **14-20-603-5449**

2007 MAY 29 AM 9:47

6. If Indian, Allottee or Tribe Name **Navajo Tribe**

RECEIVED
BLM

7. If Unit or CA/Agreement, Name and/or No. **McElmo Creek Unit**

1. Type of Well: ☐ Oil Well ☐ Gas Well ☑ Other

8. Well Name and No. **MCU E-19**

2. Name of Operator **Resolute Natural Resources Company**

9. API Well No. **43-037-16342**

3a. Address **1675 Broadway, Suite 1950, Denver, CO 80202**

3b. Phone No. *(include area code)* **303-534-4600**

10. Field and Pool, or Exploratory Area **Greater Aneth**

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*

1980' FSL and 660' FEL, NESE Sec 11-41S-24E, SLM

11. County or Parish, State **San Juan, Utah**

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☑ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☑ Recomplete	☑ Other **Convert to Prod Horiz Laterals**
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Resolute proposes to complete 2 horizontal laterals in the subject well. The well is currently a class IIR water injection well operating under rule authorization from US EPA and interim authorization from Navajo EPA. Resolute understands, based on conversations with US EPA staff, that the rule authorization does not allow for the addition of laterals to the existing wellbore and that a UIC permit must be obtained from US EPA prior to the injection of fluid into the modified well. Resolute therefore proposes to convert the MCU E-19 to producing status until such time as a UIC permit application can be submitted to US EPA. A UIC application was previously submitted to Navajo EPA and is pending technical rev.

The conversion is consistent with Resolute's plans to capture flush production following drilling of the proposed laterals. Upon completion of the proposed laterals, Resolute will continue to operate the E-19 as a producing oil well and will not commence fluid injection until such time as a UIC permit has been issued and a Sundry Notice of Intent has been approved by BLM, US EPA and Navajo EPA.

The project will require enlarging of the current well pad from a 125' diameter to approximately 250' X 250'. However, the well pad will not result in additional surface disturbance beyond the location originally approved for drilling of the well. A 60' X 40' X 8' drilling pit will be necessary for the proposed operations. The pit will be lined with a 12-mil (minimum) thickness poly liner.

Bottom hole targets, a location plat and drilling plan are attached. Please contact me at 303-573-4886 X 1165 if you require additional information.

SEE ATTACHED FOR CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)* **Dwight E Mallory** Title **Environmental, Health & Safety Coordinator**

Signature Date 5/24/07

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by Title Pet. Eng. Date 5/31/07

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Office FFO

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

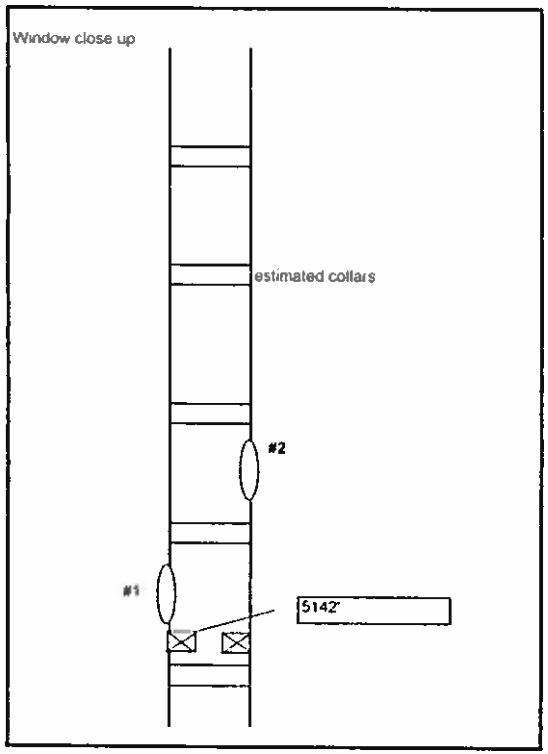
(Instructions on page 2)

OPERATOR

MCU E-19 Lateral Targets

Well Name	Twnshp	Range	Sect	Status	Leg	Zone	TVD @ well	Z @ well	X	Y	X from Srf	Y from Srf	Azimuth	TVD	Z (subsea)	
Surface Location		GL 4442	KB.	4455					2656906.50	214821.60	Easting	Northing				
											0	0	0.0			
E-19	41S	24E	11	Prod	1	DC-IA	5288	-833	2656720.00	214740.00	-186.50	-81.60	246.37	5288.00	-833	1338' FSL & 2127' FEL, T41S R24E Sect 11
									2656126.00	214489.00	-780.50	-332.60	246.92	5289.00	-834	
									2655440.00	214180.00	-1466.50	-641.60	246.37	5290.00	-835	
					2	DC-IA	5288	-833	2656990.00	215050.00	83.50	228.40	20.08	5284.00	-829	1207' FNL, 173 FWL, T41S R24E Sect 12
									2657264.00	215796.00	357.50	974.40	20.15	5275.00	-820	
									2657739.00	216915.00	832.50	2093.40	21.69	5272.00	-817	

Proposed Producer



17 1/4" OH

11" OH

13 3/8 24 1# SWSJ @ 172'
175 sx Reg w/ CaCl2
TOC surf

8 5/8 24# J55 STC @ 1228'
600 sx Reg w/2% CaCl2 ,3% gel, 1/4# Flocele. 1# TuffPlug and 100 sx neat
TOC surf

Well Name McElmo Creek Unit E-19
Re-entry Horizontal
Sec 11 - 41S - 24E
San Juan County, UT
1980 FSL, 660 FEL
Geo GL 4442'
Geo KB 4455'

7 7/8" OH

Window	Top	Btm	EOC MD	EOC TVD	Azi*	Curve Radius	Build Rate	Spacer	Lateral Length
1	5130	5137	5374	5288	241	151	37.9	5	1450
2	5111	5118	5379	5284	15	166	34.5	24	2087

*NOTE: Whipstock should be set at azimuth above It assumes a 5-deg right-hand walk

TIW perm pkr @ 5142'

4 3/4" OH

Perforations
Oct-60 5249 - 5454
Oct-60 5277 - 5292
Oct-60 5296 - 5303
Oct-60 5320 - 5328
Oct-60 5332 - 5340
Oct-60 5352 - 5356

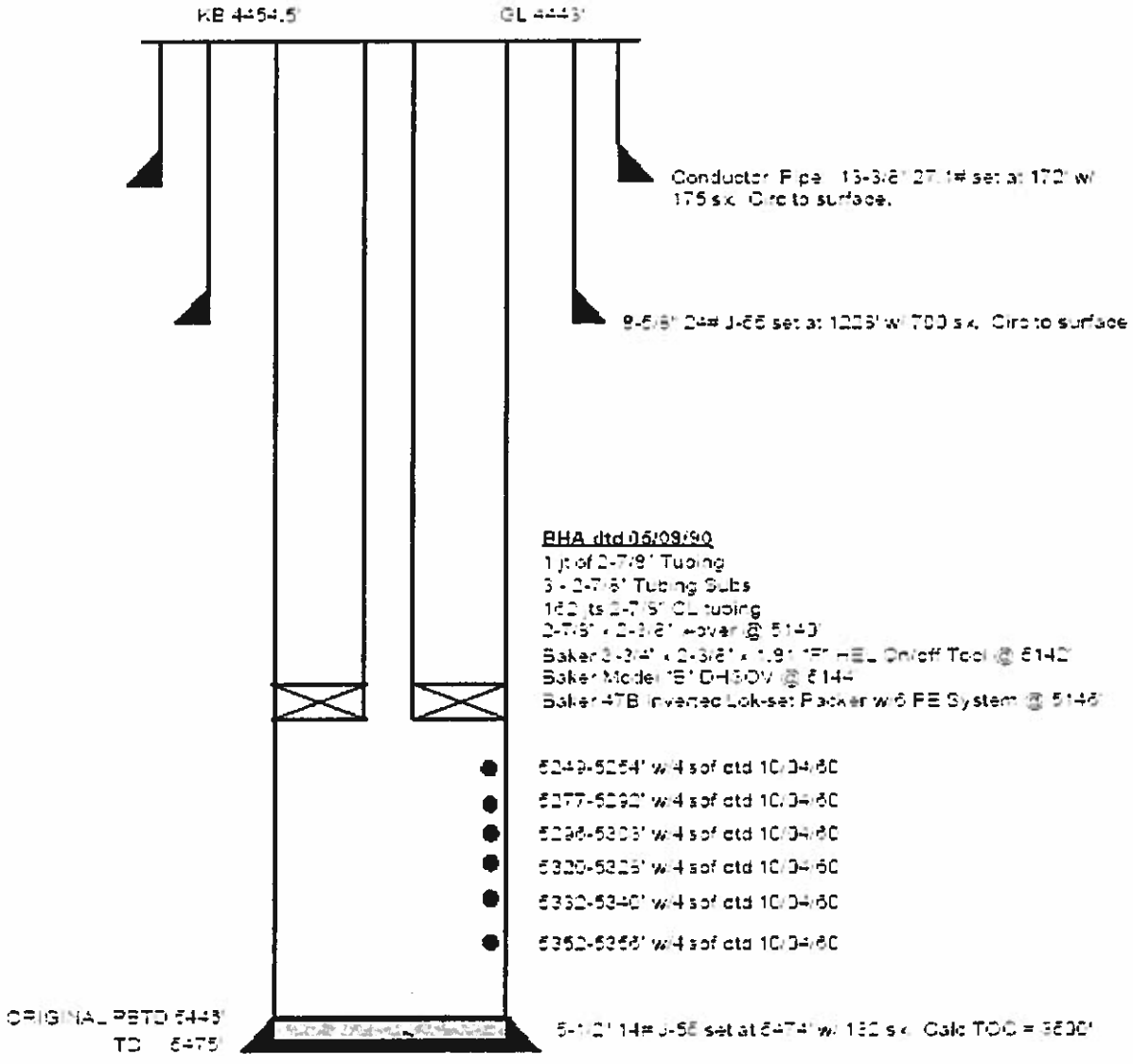
TD @ 5475'
PBTD @ 5446'

5 1/2 14# J55 STC @ 5474'
132 sx Reg. 100 sx Diacel D, 496# CaCl2
TOC 3500'

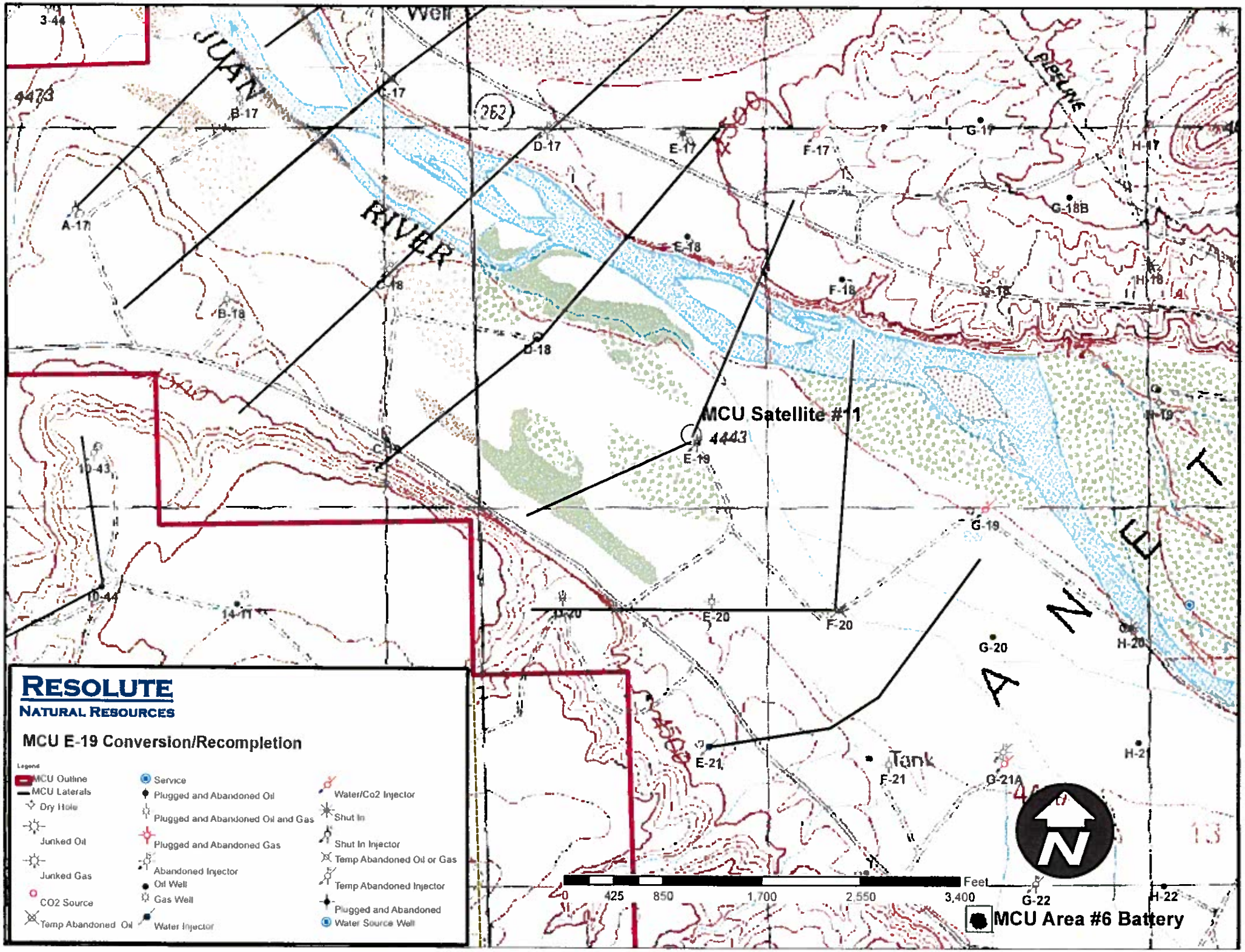
Current Configuration

McELMO CREEK UNIT #E-19
GREATER ANETH FIELD
1980' FSL & 660' FEL
SEC 11-T41S-R24E
SAN JUAN COUNTY, UTAH
API 43-037-16342
PRISM 0000197

INJECTOR



GLM 11/07/00 MCU # E-19


RESOLUTE
NATURAL RESOURCES
MCU E-19 Conversion/Recompletion
Legend
MCU Outline
MCU Laterals
Dry Hole
Junked Oil
Junked Gas
CO2 Source
Temp Abandoned Oil
Service
Plugged and Abandoned Oil
Plugged and Abandoned Oil and Gas
Plugged and Abandoned Gas
Abandoned Injector
Oil Well
Gas Well
Water Injector
Water/Co2 Injector
Shut In
Shut In Injector
Temp Abandoned Oil or Gas
Temp Abandoned Injector
Plugged and Abandoned
Water Source Well
MCU Satellite #11
4443
MCU Area #6 Battery
Tank
SAN JUAN RIVER
Pipeline
0 425 850 1,700 2,550 3,400 Feet
N
A-17
B-17
C-17
D-17
E-17
F-17
G-17
H-17
G-18B
E-18
F-18
G-18
H-18
B-18
C-18
D-18
E-19
G-19
H-19
E-20
F-20
G-20
H-20
E-21
F-21
G-21A
H-21
G-22
H-22
10-43
10-44
14-11
3-44
4473
262

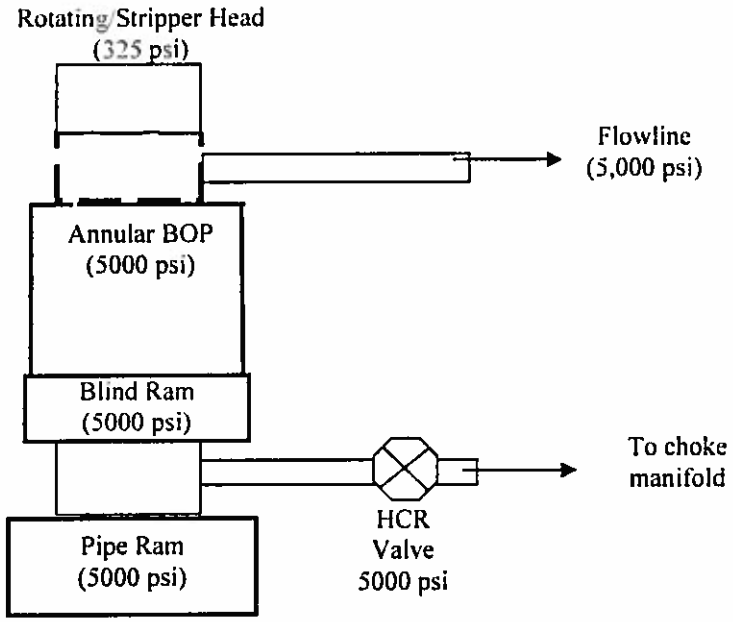
Greater Aneth Area
Horizontal Re-Entry Program

Overview

The proposed operation involves re-entry of the existing well bore and drilling 2 horizontal laterals from milled window casing exits. The laterals will be drilled and completed as 4 ¾" open hole using 3 ¾" motors, MWD, and gamma ray. The planned laterals will be drilled entirely within the Desert Creek member of the Paradox formation.

Well Control

Re-Entry BOP Stack	WP	Flange Size	Depth
RSRA w/ HCR valve	5000 psi	7 1/16"	all laterals
Washington Stripper head			



RSRA (Blind ram/ spool/ pipe rams/ Annular)
This arrangement will allow for the well to be shut in and maintain access to well bore below blind rams in the event killing the well is necessary via outlet valves on A-section. The kill line should be 2" minimum nominal diameter. Use flanged valves on all outlets and flow lines and manifold.

Kill line and choke manifold line to flare pit as wells as emergency blooie line should be staked and chained at equal intervals, 30 ft, to pit. These lines should be as straight as practical with minimum choke line diameter of 3" and 2" for kill line.

Accumulator should be tested for pre-charge pressure on closing unit and hold pressure, 200 psi, on manifold once BOP equipment is closed..

Choke manifold should be operated and circulated through for kill rate pressures with each change of BHA., using two slow pump rates, at idle and one 10 strokes above that.

BOP Testing

Testing of BOP equipment and choke manifold along with TIW valves and upper and lower kelly valves to a low pressure of 200 psi and an upper pressure of 5000 psi (rented equip is 5000 # WP) for 15 minutes upon nipple up. Repeat BOP test every 7 days and record on chart. Do not test the annular above 1500 psi WP. Replace/repair any and all leaking equipment, flanges, valves, etc. Record on tour sheet and keep chart. Clean water should be used to test the BOPE since it is possible to plug a leak with mud. Water should be pumped through all equipment before testing to clean out mud and debris. The BOP hydraulic closing system, including lines, must be tested with the operating fluid to prevent contaminating the system.

The BOPE should be tested first to 200 psi and then to the rated working pressure. The low pressure test must always be made first to simulate field well control situations.

Additional testing procedures can be made available if requested.

Other Items

Set the well control equipment up for a hard shut-in with the valve to the choke manifold shut, along with the #1 choke closed also.

Shut well in 1/2 of the way out of the hole to check for flow. Always make sure the hole stays full during short trips also.

Extra oil storage -There was a facility at Ratherford Unit, 9-23, that can be used for setting up oil tanks to have oil hauled to tanks for pickup by Giant Refinery. Send all run tickets to Bob Brady at Resolute Natural Resources Inc. At that same facility spent fluids can be off-loaded into fenced in tanks with pump and injected, to include spent acid or produced brine. Used mud should be hauled to commercial disposal well only or stored in an earth pit for settling.

A kill sheet should be prepared and kept current for use while drilling the objective. Care should be kept to not overkill or bullhead kill weight mud into the formation. At that point, the well could be lost. All personnel should meet to discuss plans for well killing operation.

Drilling Fluids

Fluid Choices and Applications

- NaCl brine – Initial fluid used from 8.6 ppg up to 10 ppg (also used at 10.0 ppg for slugging drill pipe on trips)
- CaCl2 brine- Necessary if required mud weight is btwn 10 ppg and 11.6 ppg. (should be used at trips to maintain control once in vertical hole). If needed to control water/oil/gas flow then system will be swapped over.
- CaCO3 mud- Mud weights up to 16.0 ppg can be used for additional well control uses (again only use in laterals judiciously)

Torque and Drag

- Use XCD polymer for sweeping hole to assist in cuttings removal when torque and/or drag become a problem. *The return perm numbers for XCD are extremely better than those seen when using PAC.*
- Use DD to emulsify oil into system, caution should be used with oil in system for fire hazard, suggest keeping the concentration below 10%. *Mechanical shear will emulsify the oil first but the breakout will occur in pits and hence the need for something to chemically tie it to fluid.*

Losses

- Magma Fiber can be used for seepage or small losses
- $CaCO_3$ can be used as a bridging agent, minimizes formation damage (acid soluble)

Corrosion

- Maintain correct concentrations of Concor 404 in system for treating H2S.
- Possible SV-120 (oxygen scavenger)
- Use caustic and lime to maintain pH within range 10.5-11.0.
- Run corrosion rings in drill pipe and change out on bit trips. Have metal loss evaluated quickly.

General Procedures

Prep the Well

- POH w/ rods and tbg and LD.
- RIH to set RTBP @ 5600'. Make sure any gas is circulated out of hole.
- Replace csg head and add base plate- make sure good cement is placed around casing.
- Big Red Tool will supply heads, base plate, and spear to pick up casing.
- PU bit and scraper and RIH to 5600'.
- POH and RU Blue Jet to run csg inspection log f/ 5600 ft-surf.
- Pressure test casing to 500 psi. RIH to recover RTBP.
- Use Basin Wireline to run a casing collar locator strip before setting the pkr to get on depth.
- Set the top of the TIW pkr @ approx 5511' (review collars w/ drlg engr before setting tools)
- PU latch-in tool with UBHO sub and RIH and latch into pkr.
- RU Scientific and RIH w/ gyro, obtain azimuth of keyway and POH surveying coming out of hole every 100 ft.
- POH w/ drill pipe.

Drill Horizontal #1

- Orient the whipstock at the surface using the latch-in tool, spline sub, debris sub and whipstock
- Double check orientation plans for whip
- PU and RIH to latch into pkr with mills made up to whip face
- Shear mills and begin milling window
- Once window is milled with 3-5 rathole drilled, POH w/ mills to PU directional tools.
- Use UBHO sub from Pathfinder or Scientific, PU 4 ¾" bit and motor, MWD, and gamma ray and RIH.
- Make sure Scientific gyro stinger seats well in UBHO sub w/o probs.
- Drill curve using gyro steering until magnetics are clean, then POH and continue w/ MWD alone.
- POH at TD w/ mtr and MWD and LD. PU retrieving hook and RIH to retrieve whipstock.
- POH w/ whipstock and LD.

Drill Horizontal #2

- MU next whip on catwalk and PU spaceout equipment to get bottom of whip face at proper depth.
- RIH w/ mills made up to top of whip face and set as before latching into TIW perm pkr.
- Again shear mills and mill window.
- Use UBHO sub from Pathfinder or Scientific, PU 4 ¾" bit and motor, MWD, and gamma ray and RIH.

- Drill curve using gyro steering until magnetics are clean, then POH and continue w/ MWD alone.
- Once curve has been landed, circ up samples (btms up!!) and POH and PU new 4 ¾" bit and RIH and continue drilling lateral (adjust motor down or change out either way). Try to avoid rerunning motors w/ over 100 hrs run time.
- POH at TD w/ mtr and MWD and LD.

Offset Information

- Large volumes of water have been injected versus the relatively smaller volumes produced.
- It is right to expect flows of oil/water w/ possible gas when drilling laterals
- All offset injection wells will be shut-in before drilling operation begins.
- Expect some loss return problems drilling the curves due to production from H125.
- Be prepared for possible water flow or even swept oil nearing 1000 ft of existing laterals. (Have some tanks earmarked that can be moved in for producing and storing excess oil. Try to keep oil in fluid below 10% due to fire hazard.)

Bits

- HTC has several bits available 4 ¾" as well as Smith, whichever is more readily available.
- Bits used should be IADC code 547 if possible for curves and 537 for laterals.
- Use bits for up to 72 hrs if not talking. Once bit talks; POH and make bit trip.

Other Notes

- Please call mud loggers when RIH w/ whip stock to mill window #1. That will give them time to get out and setup.

Casing Exit Procedure

A 5 ½" TIW Big Bore permanent packer will be set on wire line at approx 5511'. RIH w/ latch tool on 2 7/8" AOH drill pipe. A gyro survey will be run to obtain the azimuth of the keyway along with the survey of the hole. A collar log should have been run also to determine proper placement of the permanent packer along with proper space out for each window to be milled.

All hands need 24 hr notice.

1. On catwalk, MU TIW latch along w/ debris sub underneath Smith 5 ½" Track master whip stock. After the first window, each subsequent window will have additional space out equipment that will be made up beneath the whip stock. For longer space out, it would be a good idea to use a laser and punch to align whip face and get it more accurate. Every inch off on alignment means degrees off azimuth once run in the hole. **(HEADS UP!!)** Whip stocks don't move so how off the azimuth is will be a reflection of how much care is given to this part of the process.

2. Using TIW template card, orient whip stock face to desired azimuth via spline in latch as well as key on latch to keyway azimuth previously obtained. **(HEADS UP!!)** The template will be backward but it is supposed to be this way.

3. PU assembly and RIH and using collar clamp, set in rotary for makeup of 4 ¾" TCI Bi-mill and XO sub.

4. Continue RIH until 10 ft above the packer and then work out any trapped torque with up and down movement.

5. Slack off string until the latch enters the keyway of packer (might see drill pipe turn). Continue slacking off until latch locks into packer. Slack off 5-7k over and pull same to verify latch is locked into packer.

6. Shear bolt by setting 35k down to release mill from whip stock face.

7. Position Track master mill 2-3 ft above top of whip stock. Bring pumps up per milling hand, but he will begin rotation above whip stock to get clean parameters and then slowly lower BHA until it contacts whip stock.

8. Proceed with milling window and desired amount of rat hole, 2-4 feet. Work mill through window several times to insure easy access at least to mid-section of mill.

9. Circulate bottoms up and POH and inspect condition of mill and gage mill for proper wear.

Interval Hole Problems

Hazard	Mitigation
Geologic Uncertainty	Gamma ray information will be reviewed frequently to assist in conjecture for dip. Control is good but heterogeneity between wells still exists and it is likely to differ from expectation. Always stop to circulate bottoms up when
Faulting	Directional drillers know when they see faulting, even small throws; it may appear as trouble holding or obtaining a tool face, excessive drag, erratic survey, or erratic change in p-rate.
Loss Returns/ Hydrostatic Sticking	Drilling past areas of great production where little injection has taken place make it possible for both loss returns and hydrostatic sticking. Loss returns can be approached by using CaCO3 med/fine grain and if hydrostatic sticking occurs, spotting some acid has been successful. Magma fiber can be very helpful creating a filter cake to help w/ stopping losses.
Water/Oil Flow	Drilling past areas of great injection can increase the possibility of either crossing areas of unswept oil (banked oil) or water flood fronts. These can be fairly strong requiring mud weight s up to 14 ppg. Oil in drilling fluid should be tied up but beyond 10% vol. it should be removed off of the top of steel pits. It is a fire hazard around ignition sources!!
Hydrogen Sulfide in Formation	H2S alarms and equipment include alarm sensors under the rig floor, at shaker, and on the floor. Scott air packs available for drilling crew and are located per driller's program. Warning signs upon entry to location. American Safety Inc. will provide 24hr. onsite safety personnel.
Corrosion	Both H_2S (CONCOR 404) and O_2 (SV-120) scavengers will be used and pH will be kept btwn 10.5-11.0
Formation Damage	When using high weight muds, attempt to kill well on trips once bit is inside window in vertical part of hole if possible before circulating kill fluids. This will help to minimize formation damage.
Torque/ Drag	Inevitable in horz wells, XCD polymer mixed in pills can be used 15 bbls at a time for assistance sliding and should be spotted AFTER bottoms up samples are headed up the hole, before tripping off bottom. Keeping doglegs minimal and stewarding well path to care for that will help keep drag low. Rotating more than sliding will also help drag because it cleans the hole better.

BHA

Bottom hole assemblies will be similar except for motor adjustment for both the curve and lateral.

- 4 ¾" Bit
- 3 ¾" motor
- 3 ¾" UBHO
- 3 ¾" Monel Drill Collars
- XO
- 2 7/8"/10.4#/S135/AOH

Hydrogen Sulfide Operations

The Desert Creek formation within the Aneth Unit is known to have the potential to contain concentrations of H_2S of 100 ppm or more in the gas stream. The requirements and minimum standards listed below shall be implemented and maintained during the proposed operations at the site.

1) American Safety Inc. (ASI) has been contracted to provide personnel for continuous onsite safety supervision. An ASI representative will be onsite during all drilling operations and will be person primarily responsible for the overall operation of the on-site safety and training programs.

2) Warning signs will be posted upon entry to the location. Warning signs will utilize a red, yellow, green color code system that provides information on the potential for H2S at the site at all times. Windsocks to indicate wind direction will also be installed at prominent locations such that at least 1 wind direction indicator is clearly visible at all times. ASI personnel will also control site access during the proposed operations.

3) Personnel working at the wellsite will be trained in H_2S contingency procedures in accordance with the general training requirements outlined in the American Petroleum Institute's (API) Recommended Practice (RP) 49 (April 15, 1987 or subsequent editions) for Safe Drilling of Wells Containing Hydrogen Sulfide.

4) A minimum of 2 briefing areas shall be designated for assembly of personnel during emergency conditions. Briefing areas shall be located a minimum of 150 feet from the well bore and 1 of the briefing areas shall be upwind of the well at all times. A minimum of 2 means of egress from the work location shall be designated prior to the commencement of operations. If secondary road is not available, a clearly marked footpath shall be provided to the primary briefing area.

5) H2S detection and monitoring equipment that has a rapid response time and is capable of sensing a minimum of 10 ppm of H2S in ambient air will be installed under the rig floor, at the shaker, and on the rig floor. The monitoring equipment will automatically activate visible and audible alarms when the ambient air concentration of H2S reaches the threshold limits of 10 and 15 ppm in air, respectively.

6) Respiratory protection equipment consisting of pressure-demand type self contained breathing apparatus (SCBAs) will be available for the drilling crew and other essential personnel onsite. SCBAs are located on each rig as specified by the drilling contractor's program. All essential personnel onsite shall be trained in the use and location of the SCBAs and shall be able to obtain a continuous seal to the face with the equipment.

Contact List

Service	Company	Name	City	Cell Phone	Other Phone
Drilling Contractor	Patterson	Gary Miller	Farmington	505-320-4400	
Drilling Fluid	MI Swaco	Danny Beeson	field	580-445-6889	580-473-2084
		Jamie Primeaux	Denver	303-916-2517	303-623-0911
Downhole Tools (prep)	Weatherford	Shawn Miller	Farmington	505-320-4110	
Whipstocks/ Mills	Smith	Eppie Sanchez	Farmington	505-320-6916	505-327-1212
Perm Pkr	TIW	Ronnie Champagne	Youngsville, La		337-856-7271
Wireline for Pkr and Survey	Black Warrior Wireline	Jerry	Farmington		505-326-4110
Casing Inspection	Blue Jet	Danny Seip	Farmington		505-325-5584
Mudlogger	Choquette Well Logging	Andy Choquette	Farmington	505-793-5334	505-334-3954
Bit Rep	HTC	Joel Hobbs	Midland		432-498-9898
		John White	Farmington	505-320-3059	
	STC	Eppie Sanchez	Farmington	505-320-6916	505-327-1212
Directional Service	Pathfinder	Rich Arnold	Casper	307-259-2229	307-265-3145
Gyro Service	Scientific Drilling	David Cotten	Midland	432-634-8271	432-563-1339
		Mark Houston	Farmington	505-860-8174	505-325-1787
Rental Tools (drillpipe and handling, power swivel)	Knight Oil Tools	Ben Reese	Farmington	505-330-0347	505-632-6666
BOP testing	Wellcheck Testing	Leon Hanhardt	Farmington	505-402-6624	
Fluid transportation and water and frac tanks	Francis Trkng	Francis Lee	Montezuma Crk		
	Montezuma Well Service	Dan Dreyfus			
	Lansing	Tommy Lansing			435-651-3440
Location work	Lansing Construction	Tommy Lansing	Montezuma Crk		435-651-3440
Wellhead Equipment	Big Red Tool	Ken Britton	Farmington	505-330-1067	505-325-5045
Rig Anchors	Motee Inc.	Craig	Farmington	303-320-0126	303-325-1666
H_2S Safety	American Safety		Farmington		
Injection Packer	Knight Oil Tools	Scott Girrens	Farmington		505-632-6666
Housing	K&C Transpot		Farmington		505-334-4088
Septic, FW. Porta-pots	Tri Energy	Hal Stone	Farmington		505-325-7005
Geophysicist	Resolute Natural Resources	Sean Smith	Denver	303-902-3772	303-534-4600 ext 215
Operations Manager	Resolute Natural Resources	Bob Brady	Denver	303-570-0736	303-534-4600 ext 135
Drilling Engr	Storbeck Consulting, Inc.	Wendy Holland	Midland	432-664-1121	432-682-3874

BLM CONDITIONS OF APPROVAL FOR RECOMPLETION

The following conditions of approval will apply to this well unless a particular Surface Managing Agency or private surface owner has supplied to BLM and the operator a contradictory environmental stipulation. The failure of the operator to comply with these requirements may result in the assessment of liquidated damages or penalties pursuant to 43 CFR 3163.1 or 3163.2. A copy of these conditions of approval shall be present on the location during construction, drilling and reclamation activity.

An agreement between operator and fee land owner will take precedence over BLM surface stipulations unless (In reference to 43 CFR Part 3160) 1) BLM determines that the operator's actions will affect adjacent Federal or Indian surface, or 2) the operator does not maintain well area and lease premises in a workmanlike manner with due regard for safety, conservation and appearance, or 3) no such agreement exists, or 4) in the event of well abandonment, minimal Federal restoration requirements will be required.

Special Stipulations:

** **A copy of the Hydrogen Sulfide Public Protection Plan is to be available at the drilling and/or completion well site.**

** **Within 30 days of completion of the horizontal laterals, file a subsequent report of operations (Form 3160-5) and Well Completion Report (Form 3160-4) including the as built Directional survey(s) for each lateral.**

** ***Reserve pits will be closed and rehabbed 90 days after recompletion. All pits used in recompletion remaining open after the 90 days will need written authorization from the Authorized Officer. This requirement is addressed in the General Requirements of Onshore Order # 7.***

** **Pits will be lined with an impervious material at least 12 mils thick. Prior to closing the pit, the liner will be cut off at mud level. The excess liner will be hauled to a licensed disposal area.**

** Diversion ditch(es) will be reconstructed if damaged by recompletion work.

** If the cut and fill slopes of the well pad are used or damaged by completion work then the cut and fill slopes will be brought back to the original contour of the location before work was accomplished.

** All above ground structures shall be painted to blend with the natural color of the landscape and will remain the same color as was previously stipulated in the APD

** All disturbance will be seeded after the pit is closed with the appropriate seed mixture. Contact the Bureau of Indian Affairs for the appropriate seed mix.

I. LOCATION, ACCESS ROAD AND PIPELINE

1. Well area and lease premises will be maintained in a workmanlike manner with due regard to safety, conservation and appearance. All liquid waste, completion fluids and drilling products associated with oil and gas operations will be contained and then buried in place, or removed and deposited in an approved disposal site.

2. Surface disturbance and vehicular traffic will be limited to the approved location and approved access road.

3. Mud and blow pits will be constructed so as not to leak, break or allow discharge of liquids or produced solids. At least half of the capacity of the reserve pit must be in cut. The top of the outside wall of reserve pit should be smoothed-off with a minimum of one blade width. The pit should have adequate capacity to maintain 2 feet of free board. Pits are not to be located in natural drainages. Pit walls are to be "walked down" by a crawler type tractor following construction and prior to usage. Any plastic material used to line pits must be removed to below-ground level before pits are covered. The final grade of reserve pit (after reclamation) shall allow for drainage away from pit area.

4. All unguarded pits (reserve/production/blow pits) containing liquids will be fenced with woven wire. Drilling pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced. All fencing must be a legal fence in accordance with New Mexico State Law. Liquids in pits will be allowed to evaporate, or be properly disposed of, before pits are filled and recontoured. (This office will be notified 24 hours prior to fluid hauling). Under no circumstances will pits be cut and drained. Aeration of pit fluids must be confined within pit area. Upon completion of the well the reserve pit will be covered with screening or netting and remained covered until the pit is reclaimed. All production pits 16 feet in diameter or larger will be covered with screening or netting.

5. No gravel or other related minerals from new or existing pits on federal land will be used in construction of roads, well sites, etc., without prior approval from the Surface Managing Agency.

6. Berms or firewalls will be constructed around all storage facilities sufficient in size to contain the storage capacity of tanks, or the combined capacity of tanks if a rupture could drain more than one tank. Berm walls will be compacted with appropriate equipment to assure proper construction.

7. All roads on public land must be maintained in good passable condition.

8. The holder shall conduct all activities associated with the construction, operation, and termination of the right-of-way within the authorized limits of the right-of-way.

9. A copy of these stipulations, including exhibits and the Plan(s) of Operation (if required), shall be at the project area and available to persons directing equipment operation.

10. Disposal of all liquid and solid waste produced during operation of this right-of-way shall be in an approved manner so it will not impact the air, soil, water, vegetation or animals.

11. The holder shall not violate applicable air and water quality standards or related site facility standards established by or pursuant to applicable Federal and State law.

12. Use of pesticides and herbicides shall comply with applicable federal/state laws. Pesticides and herbicides shall be used only in accordance with their registered uses and within limitations imposed by the Secretary of the Interior. Prior to the use of pesticides, holder shall obtain from the AO written approval of a plan showing the type and quantity of material to be used, pest(s) to be controlled, method of application, location of storage and disposal of containers, and any other information deemed necessary. Emergency use of pesticides shall be approved in writing by the AO prior to use.

13. The holder shall be responsible for weed control and selective control of invasive weeds on disturbed and reclaimed areas within the limits of the well pad, associated road and pipeline ROW. The holder is responsible for consultation with the AO and/or local authorities for acceptable weed control methods within limits imposed in the conditions of approval.

14. The holder shall minimize disturbance to existing fences and other improvements on public land. Holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be H-braced on both sides of the passageway prior to cutting the fence.

15. Construction sites shall be maintained in a sanitary condition at all times; waste materials at those sites shall be disposed of promptly at an appropriate waste disposal site. ***Waste*** means all discarded matter including, but not limited to, human waste, trash, garbage, refuse, oil drums, petroleum products, ashes and equipment.

16. The holder shall maintain the ROW in a safe, useable condition, as directed by the AO. (A regular maintenance program shall include, but is not limited to, soil stabilization.)

17. Unless otherwise approved in writing by the AO, this road will be designed and constructed to conform with the BLM, NM road construction/maintenance policy.

18. Public access along this road will not be restricted by the holder without specific written approval being granted by the AO. Gates or cattleguards on the public land will not be locked or closed to public use unless specifically determined by the AO.

19. Unless otherwise approved in writing by the AO, drainage dip location for grades over two (2) percent shall be determined by the formula:

Spacing Interval = $\frac{400}{\text{road slope \%}}$ + 100'.

Example: For a road with a four (4) percent slope.

Spacing Interval = $\frac{400}{4\%}$ + 100' = 200 feet

20. Unless otherwise approved in writing by the AO, all turnout ditches shall be graded to drain water with a one (1) percent minimum to three (3) percent maximum ditch slope. The spacing interval for turnout ditches shall be determined according to the following table, but

may be amended depending upon existing soil types and centerline road grade:

SPACING INTERVAL FOR TURNOUT DITCHES

Percent Slope	Spacing Interval
0 - 4%	150 - 350 feet
4 - 6%	125 - 250 feet
6 - 8%	100 - 200 feet
8 - 10%	75 - 150 feet

21. Maintain the road so that user traffic remains within right-of-way and erosion is mitigated. Roads and road segments where serious erosional damage is occurring will be handled on a case-by-case basis. "Flat blading" will be avoided. A exemption would be permitted where bedrock is exposed at the surface. Roads will be maintained so that over time a proper road prism and good drainage is achieved. Maintenance will include drainage dips, turnout ditches, crowning and/or out-sloping/in-sloping, low water crossings and vehicle turnouts. Cattleguards and culverts will be cleaned and repaired or replaced. Surfacing may be required.

22. Failure of the holder to share maintenance costs in dollars, equipment, materials or man-power proportionate to the holder's use with other authorized users may be adequate grounds to terminate right-of-way grant. The determination as to whether this has occurred and the decision to terminate shall rest with the AO. Upon request, the AO shall be provided with copies of any maintenance agreement entered into.

II. CULTURAL RESOURCES (ARCHAEOLOGY)

1. **Discovery of Cultural Resources in the Absence of Monitoring:** If, in its operations, operator/holder discovers any previously unidentified historic or prehistoric cultural resources, then work in the vicinity of the discovery will be suspended and the discovery promptly reported to BLM Field Manager. BLM will then specify what action is to be taken. If there is an approved "discovery plan" in place for the project, then the plan will be executed. In the absence of an approved plan, BLM will evaluate the significance of discovery and consult with the State Historic Preservation Officer in accordance with 36 CFR Section 800.11. Minor recordation, stabilization, or data recovery may be performed by BLM or a permitted cultural resources consultant. If warranted, more extensive treatment by a permitted cultural resources consultant may be required of the operator/holder prior to allowing the project to proceed. Further damage to significant cultural resources will not be allowed until any required treatment is completed. Failure to notify BLM about a discovery may result in civil or criminal penalties in accordance with the Archeological Resources Protection Act of 1979 (as amended).

2. **Discovery of Cultural Resources During Monitoring:** If monitoring confirms the presence of previously unidentified cultural resources, then work in the vicinity of the discovery will be suspended and the monitor will promptly report the discovery to the BLM Field Manager. BLM will then specify what action is to be taken. If there is an approved "discovery plan" in place for the project, then the plan will be executed. In the absence of an approved plan, the BLM will evaluate the significance of the discovery and consult with the State Historic Preservation Officer in accordance with 36 CFR Section 800.11. Minor recordation, stabilization, or data recovery may be performed by BLM or a permitted cultural resources consultant. If warranted, more extensive treatment by a permitted cultural resources

consultant may be required of the operator/holder prior to allowing the project to proceed. Further damage to significant cultural resources will not be allowed until any required treatment is completed.

3. **Damage to Sites**: If, in its operations, operator/holder damages, or is found to have damaged any previously documented or undocumented historic or prehistoric cultural resources, excluding "discoveries" as noted above, the operator/holder agrees at his/her expense to have a permitted cultural resources consultant prepare and have executed a BLM approved data recovery plan. Damage to cultural resources may result in civil or criminal penalties in accordance with the Archeological Resources Protection Act of 1979 (as amended).

III. RESEEDING AND ABANDONMENT

Species shall be planted in pounds of pure live seed per acre:
Present Pure Live Seed (PLS) = Purity X Germination/100
Two lots of seed can be compared on the basis of PLS as follows:

Source No. One (poor quality)		Source No. two (better quality)	
Purity	50 percent	Purity	80 percent
Germination	40 percent	Germination	63 percent
Percent PLS	20 percent	Percent PLS	50 percent
5 lb. bulk seed required to make 1 lb. PLS.		***2 lb. bulk seed required to make 1 lb. PLS.***	

Seed mixture used must be *certified*. There shall be NO primary or secondary noxious weeds in seed mixture. Seed labels from each bag shall be available for inspection while seed is being sown.

Seeding shall be accomplished between July 1 and September 15 (later date may be extended on a case-by-case basis with AO approval). Seeding shall be repeated if a satisfactory stand is not obtained as determined by the AO upon evaluation after the second growing season.

Compacted areas shall be ripped to a depth of *12"* and disked to a depth of six inches before seeding. Seed with a disk-type drill with two boxes for various seed sizes. The drill rows shall be eight to ten inches apart. Seed shall be planted at not less than one-half inch deep or more than one inch deep. The seeder shall be followed with a drag, packer, or roller to ensure uniform coverage of the seed, and adequate compaction. Drilling shall be done on the contour where possible, not up and down the slope.

Where slopes are too steep for contour drilling a "cyclone" hand seeder or similar broadcast seeder shall be used. Seed shall then be covered to the depth described above by whatever means is practical, i.e. hand raked. If the seed is not covered, the prescribed seed mixture amount (pounds/acre/PLS) will be doubled.

If, upon abandonment of wells, the retention of access road is not considered necessary for the management and multiple use of the natural resources, it will be ripped a minimum of 12" in depth. After ripping, water bars will be installed. All ripped surfaces are to be protected from vehicular travel by construction of a dead end ditch and earthen barricade at the

entrance to these ripped areas. (Reseeding of affected areas may be required.)

ABANDONMENT: Ninety days prior to termination of the ROW, the holder shall contact the AO to arrange a joint inspection of the ROW. This inspection will be held to agree to an acceptable termination (and rehabilitation) plan. This plan shall include, but is not limited to, removal of facilities, drainage structures, or surfacing material, recontouring, topsoiling or seeding. The AO must approve the plan in writing prior to the holder's commencement of any termination actions.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: Resolute Natural Resources Company

Operator Account Number: N 2700

Address: 1675 Broadway, Suite 1950

city Denver

state CO zip 80202

Phone Number: (303) 534-4600

Well 1 Navajo D-2 (McElmo E-19)

API Number	Well Name	QQ	Sec	Twp	Rng	County
4303716342	~~McElmo Creek Unit E-19~~	NESE	11	41S	24E	San Juan

Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date
E	99990	5980		11/7/07

Comments: The MCU E-19 was converted from EOR injection to producing oil well following lateral recompletion on 6/29/2007. DSCR

Well 2

API Number	Well Name	QQ	Sec	Twp	Rng	County

Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date

Comments:

Well 3

API Number	Well Name	QQ	Sec	Twp	Rng	County

Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date

Comments:

RECEIVED
NOV 06 2007
DIV. OF OIL, GAS & MINING

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Dwight Mallory
Name (Please Print)

Signature

EH&S Coordinator
Title

11/2/2007
Date

(5/2000)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ (highlight changes) FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: Indian 14-20-603-5449
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo Tribe
7. UNIT or CA AGREEMENT NAME: McElmo Creek Unit
8. WELL NAME and NUMBER: MCU E-19 Lateral #1
9. API NUMBER: 4303716342
10. FIELD AND POOL, OR WILDCAT: Greater Aneth
11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 11 41S 24E S
12. COUNTY: San Juan
13. STATE: UTAH

1a. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ DRY ☐ OTHER

b. TYPE OF WORK: NEW WELL ☐ HORIZ. LATS. ☑ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER

2. NAME OF OPERATOR: Resolute Natural Resources Co.

3. ADDRESS OF OPERATOR: 1675 Broadway, #1950 CITY Denver STATE CO ZIP 80202

PHONE NUMBER: (303) 534-4600

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 1980' FSL and 660' FEL
AT TOP PRODUCING INTERVAL REPORTED BELOW: 1977' FSL and 775' FEL, 11-41S-24E
AT TOTAL DEPTH: 1370" FSL and 2141' FEL, 11-41S-24E

14. DATE SPUDDED:	15. DATE T.D. REACHED:	16. DATE COMPLETED:		17. ELEVATIONS (DF, RKB, RT, GL):
6/1/2007	6/28/2007	7/1/2007	ABANDONED ☐ READY TO PRODUCE ☑	RKB

18. TOTAL DEPTH:	19. PLUG BACK T.D.:	20. IF MULTIPLE COMPLETIONS, HOW MANY? *	21. DEPTH BRIDGE PLUG SET:
MD 6,826 TVD 5,297	MD TVD		MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
Gamma Ray
LATERAL 1

23.
WAS WELL CORED? NO ☑ YES ☐ (Submit analysis)
WAS DST RUN? NO ☑ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☐ YES ☑ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
4 3/4" OH									

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) Desert Creek	5,331	6,826	5,279	5,297
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

29. ENCLOSED ATTACHMENTS:

☑ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☑ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER:

30. WELL STATUS: PRO

RECEIVED
NOV 13 2007
DIV. OF OIL, GAS & MINING

(5/2000)

(CONTINUED ON BACK)

31. INITIAL PRODUCTION — **INTERVAL A (As shown in item #26)**

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
8-17-07	8-17-07	24 hr		71	49	194	

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:
-	110	80.								

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD

CHOKE SIZE	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES. →	OIL – BBL.	GAS – MCF:	WATER – BBL:	INTERVAL STATUS.

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS.

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
Desert Creek	5,331	6,826			

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Dwight Mallory TITLE EH&S Coordinator

SIGNATURE DATE 11/7/07

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

Survey Name: Survey from Data Set 1 relative to true north
Well Name: Realtime: MC-CU E-19
Date/Time: 06/14/2007 06:04:10 AM Mountain Daylight Time
Magnetic Decl.: 11.05
Grid Correction: 0
North Reference: TRUE
Section (VS) Ref.: 0.00N (ft), 0.00E (ft), 247.75Azim (deg)
Calculation Method: Minimum Curvature

MD	Incl	Azim	TVD	+N/-S	+E/-W	VS	DLS	Stat	Build	Turn
ft	deg	deg	ft	ft	ft	ft	deg/100ft		deg/100ft	deg/100ft
5128	0.69	87.82	5126.8	55.1	-18	-4.2	n/a	TieIn	n/a	n/a
5167.5	15.69	231.56	5165.9	51.8	-22	0.7	41.09	1	37.93	363.44
5198.7	27.21	231.42	5194.9	44.7	-30.9	11.7	36.98	2	36.98	-0.45
5230.6	38.36	231.95	5221.7	34	-44.4	28.3	34.92	3	34.91	1.66
5260	49.48	240.12	5242.8	22.7	-61.4	48.2	42.4	4	37.84	27.8
5291.6	59.75	245.43	5261.1	11	-84.3	73.8	35.23	5	32.48	16.79
5328.7	72.88	245.93	5276	-2.9	-115.1	107.6	35.47	6	35.45	1.35
5360.3	83.22	248.39	5282.5	-14.9	-143.6	138.5	33.61	7	32.74	7.79
5391.1	83.98	248.33	5285.9	-26.1	-172	169.1	2.47	8	2.47	-0.19
5422.5	86.94	248.38	5288.4	-37.7	-201.1	200.4	9.43	9	9.43	0.16
5453.8	90.17	248.34	5289.2	-49.2	-230.2	231.7	10.3	10	10.3	-0.13
5485	90.2	248.03	5289.1	-60.8	-259.2	262.9	1	11	0.1	-0.99
5516.5	92.59	247.67	5288.3	-72.7	-288.3	294.4	7.68	12	7.59	-1.14
5548.2	91.95	247.86	5287.1	-84.7	-317.7	326.1	2.1	13	-2.02	0.6
5579.7	91.35	247.91	5286.2	-96.5	-346.8	357.6	1.91	14	-1.91	0.16
5611.3	91.99	248.12	5285.3	-108	-376.1	389.2	2.13	15	2.02	0.66
5642.6	91.81	249.29	5284.2	-120	-405.3	420.5	3.78	16	-0.57	3.74
5674.7	88.18	248.99	5284.2	-131	-435.3	452.6	11.35	17	-11.31	-0.93
5706.3	86.06	247.57	5285.8	-143	-464.6	484.1	8.07	18	-6.71	-4.5
5738	88.32	246.56	5287.4	-155	-493.7	515.7	7.82	19	7.14	-3.19
5769.7	89.63	246.25	5287.9	-168	-522.7	547.4	4.25	20	4.14	-0.98
5800	88.02	245.08	5288.5	-180	-550.4	577.7	6.56	21	-5.31	-3.86
5832.5	89.76	244.27	5289.2	-194	-579.8	610.2	5.9	22	5.35	-2.49
5863.7	92.05	245.65	5288.7	-207	-608	641.3	8.59	23	7.36	4.43
5895.3	89.19	245.05	5288.3	-221	-636.7	672.9	9.24	24	-9.04	-1.9
5926.8	93.57	245.45	5287.6	-234	-665.3	704.3	13.96	25	13.9	1.27
5957.9	92.92	245.91	5285.8	-247	-693.6	735.3	2.56	26	-2.09	1.48
5988.8	89.56	245	5285.2	-259	-721.7	766.2	11.24	27	-10.85	-2.94
6020.2	88.41	249.31	5285.7	-272	-750.7	797.6	14.2	28	-3.66	13.73
6051.9	90	243.42	5286.1	-284	-779.7	829.3	19.24	29	5.02	-18.58
6083.2	88.95	237.21	5286.4	-300	-806.9	860.3	20.13	30	-3.36	-19.85
6114.1	91.18	244.42	5286.4	-315	-833.8	891	24.41	31	7.21	23.33
6145.6	91.48	245.25	5285.7	-328	-862.3	922.4	2.8	32	0.95	2.63
6175.8	88.32	247	5285.7	-341	-889.9	952.5	11.98	33	-10.48	5.8
6205.9	88.12	246.22	5286.7	-352	-917.5	982.7	2.67	34	-0.66	-2.59
6237.1	88.49	247.56	5287.6	-365	-946.2	1013.9	4.45	35	1.19	4.29
6268.7	87.04	246.61	5288.8	-377	-975.3	1045.4	5.49	36	-4.59	-3.01
6300.2	85.59	246.47	5290.8	-390	-1004	1076.8	4.62	37	-4.6	-0.44
6332.2	85.32	244.62	5293.4	-403	-1033	1108.7	5.83	38	-0.84	-5.79
6363.6	87.62	245.11	5295.3	-416	-1062	1140	7.48	39	7.32	1.56
6395	89.73	245.3	5296	-429	-1090	1171.4	6.74	40	6.72	0.6
6426.6	90.5	245.27	5296	-442	-1119	1202.9	2.44	41	2.44	-0.09
6458.3	91.41	245.86	5295.4	-456	-1148	1234.6	3.42	42	2.87	1.86
6490	90.4	246.25	5294.9	-468	-1177	1266.3	3.41	43	-3.19	1.23
6521.5	87.74	245.38	5295.5	-481	-1205	1297.7	8.89	44	-8.45	-2.76
6552.6	88.05	245.98	5296.6	-494	-1234	1328.8	2.17	45	1	1.93
6583.6	89.63	245.8	5297.2	-507	-1262	1359.8	5.13	46	5.09	-0.58
6615.2	89.46	245.41	5297.5	-520	-1291	1391.3	1.35	47	-0.54	-1.24
6646.7	88.86	244.69	5297.9	-533	-1319	1422.8	2.98	48	-1.9	-2.29
6677.8	89.76	244.38	5298.3	-546	-1347	1453.8	3.06	49	2.89	-1
6709	91.08	244.85	5298.1	-560	-1376	1485	4.49	50	4.23	1.5
6740.5	90.87	245	5297.5	-573	-1404	1516.5	0.82	51	-0.67	0.48
6771.6	90.71	244.55	5297.1	-586	-1432	1547.6	1.53	52	-0.51	-1.45
6789	90.5	244.48	5296.9	-594	-1448	1564.9	1.27	53	-1.21	-0.4
6826	*90.5*	*244.5*	*5297*	*-610*	*-1481*	*1602*				*projected to bit*

Scientific Drilling

MCU E-19 Lat 1

McElmo Creek Unit

Filing No.: **54153**

Company: **Resolute Natural Resources**
Well: **MCU E-19 Lat 1**
Field: **Aneth, Utah**
Rig: **Patterson 85** Country: **Navajo Res**

Location: **San Juan, Utah**

Other Services:

Elevation

API Serial No.: **43037163420000**

Sec.: **2** Twp.: **T41S** Rge.: **R24E**

KB: **4455**
DF: **13**
GL: **4442**

	Run #1	Run #2	Run #3
Permanent Datum:			
Log Measured From:			
Drilling Measured From:			
Date:			
Well Condition:			
Type Log:			
Depth-Driller:			
Depth Logger:			
Bottom Logged Interval:			
Top Logged Interval:			
Type Fluid In Hole:			
Salinity ppm cl.			
Density lb/gal			
Fluid Level			
Max. Rec. Temp. (deg C)			
Deviation:			
Recorded By:			
Witnessed By:			

Run No	Borehole Record			Casing Record			
	Bit	From	To	Size	Wt.	From	To
				5 1/2	14#		

WIRELINE INFORMATION

Wireline Operator:		Type Line:	
Maximum Tension:		Size Line:	

PRODUCTION SURFACE DATA

	Flowrate #1	Flowrate #2	Flowrate #3
Oil Rate (STB/D)			
Water Rate (STBW/D)			
Gas Rate (MSCF/D)			
GOR (SCF/STB)			
Water Cut (BS&W)			
Wellhead Pressure			
Wellhead Temp			
Choke Size (SIZE)			
Separator Pressure (PSIG)			
Separator Temp			
Well Condition @ Start			

Fluid and Gas Data: Oil Gravity | Water Salinity (PPM) | CO2 % | N2 % | H2S % (PPM)

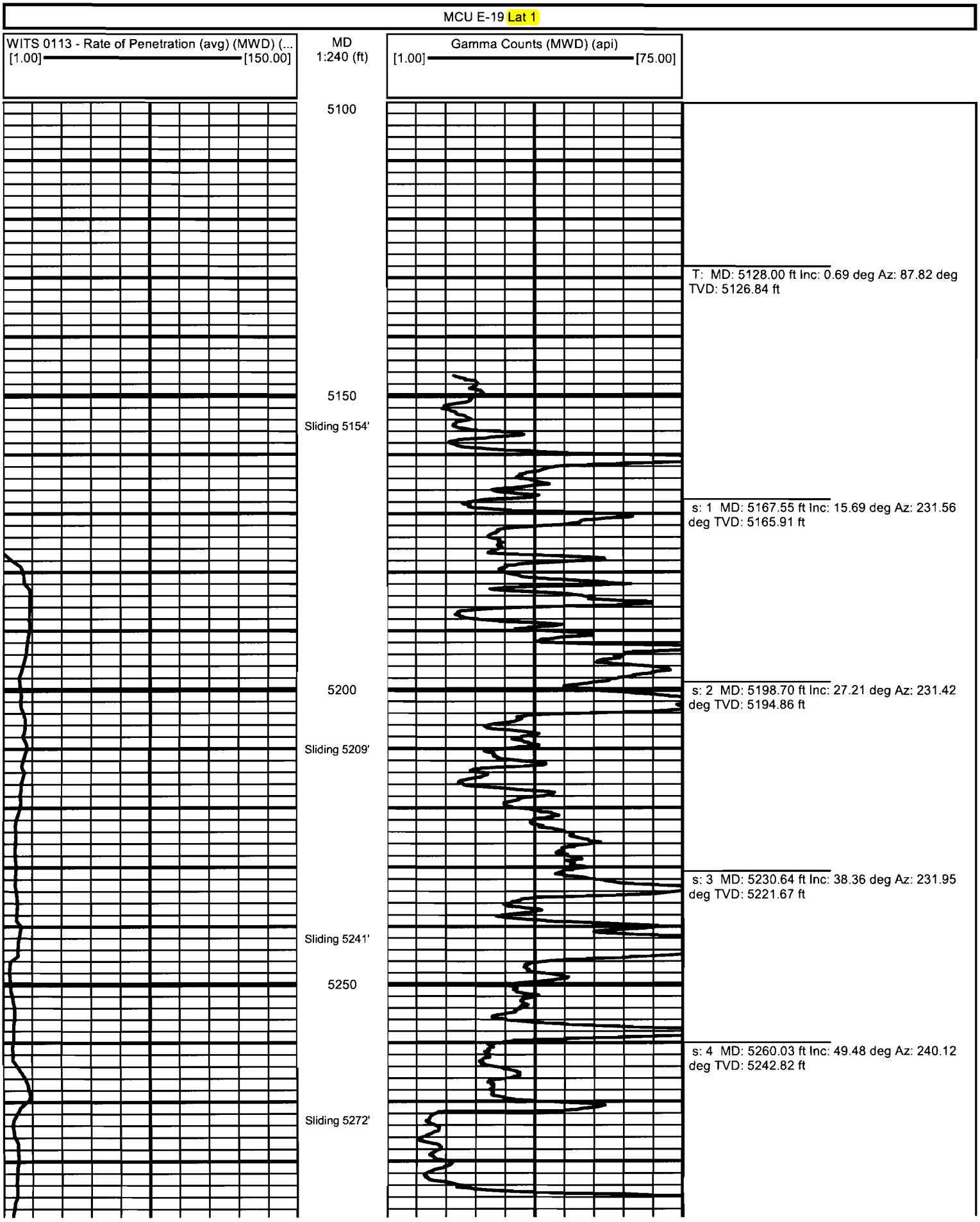
PERFORATION INFORMATION

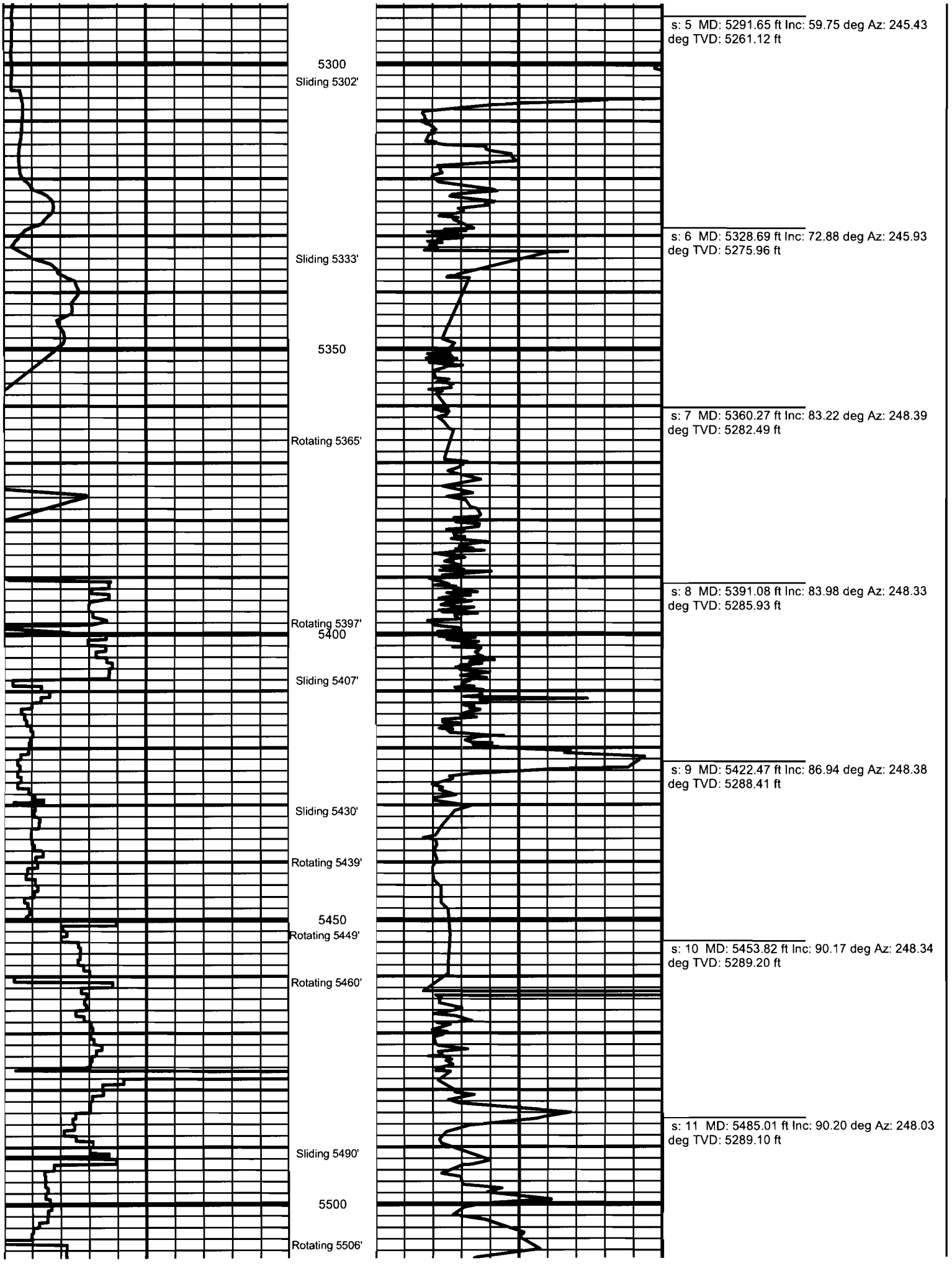
	Zone	Top	Bottom	Zone	Top	Bottom

LOGGING AND EQUIPMENT DATA

Run No.	1	2	3	4	Run No.	1	2	3	4

Tool String (empty)

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Sliding 5302'
Sliding 5333'
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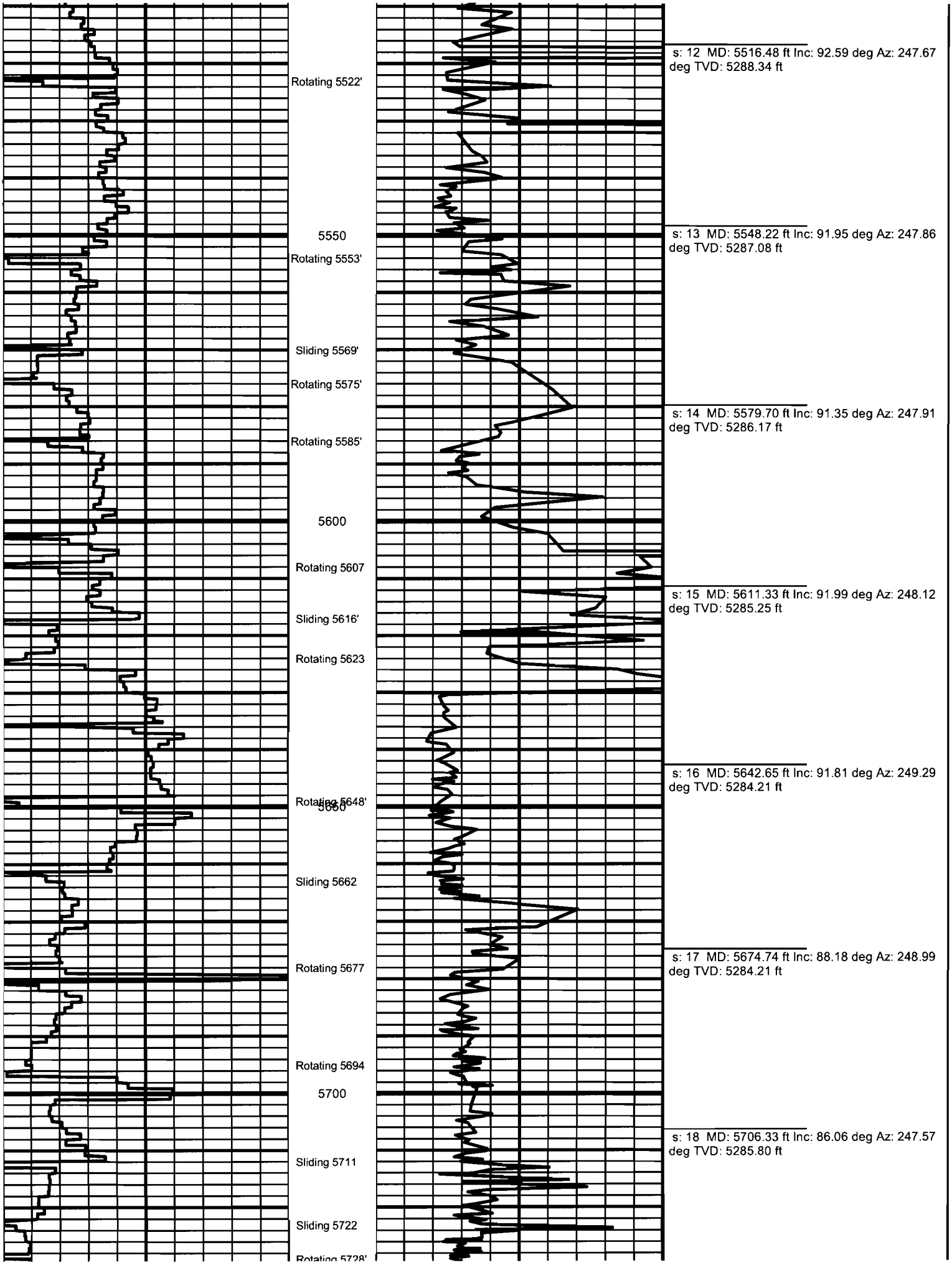
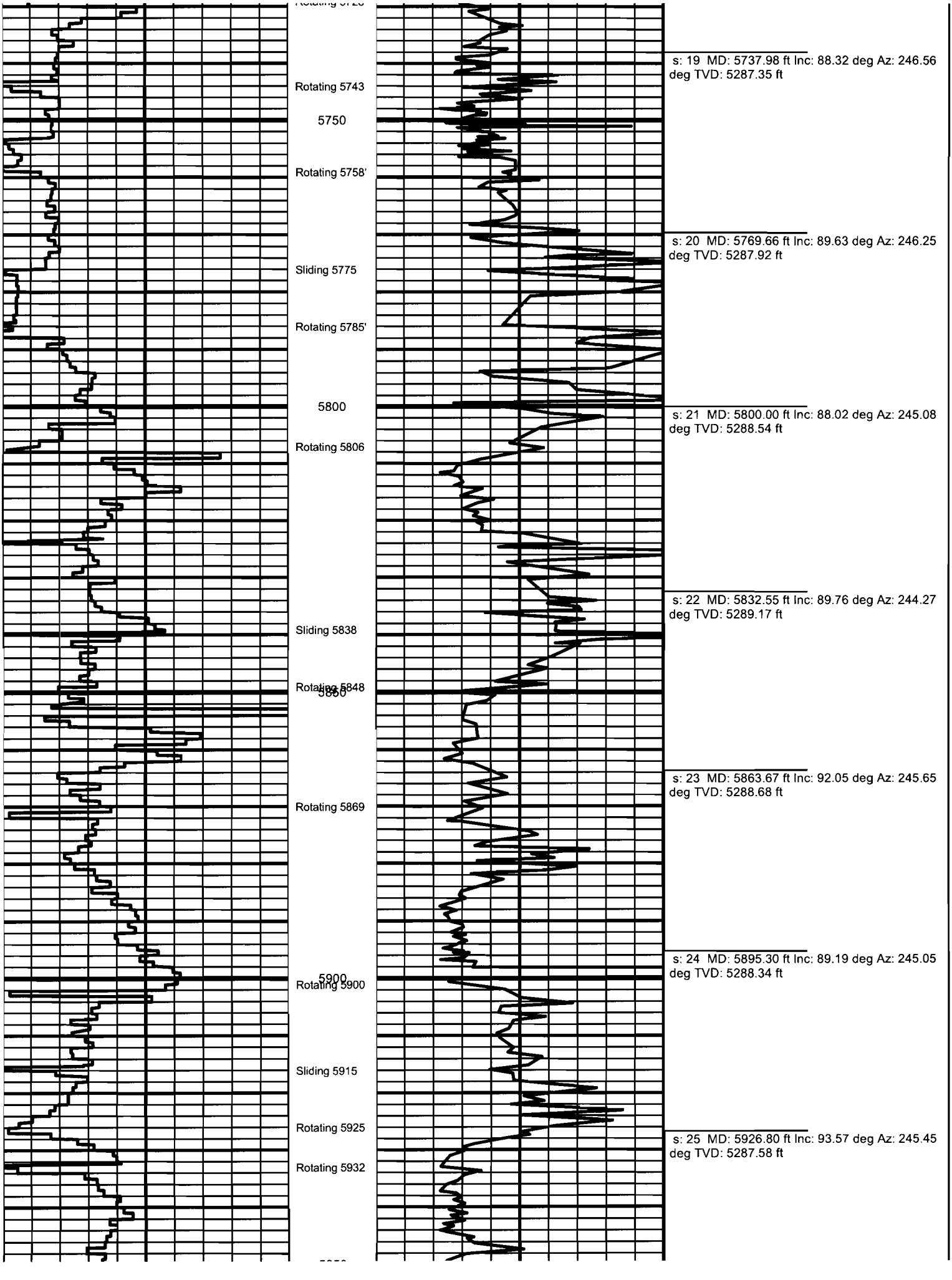
Rotating 5365'
Rotating 5397'
5400
Sliding 5407'
Sliding 5430'
Rotating 5439'
5450
Rotating 5449'
Rotating 5460'
Sliding 5490'
5500
Rotating 5506'
s: 5 MD: 5291.65 ft Inc: 59.75 deg Az: 245.43 deg TVD: 5261.12 ft
s: 6 MD: 5328.69 ft Inc: 72.88 deg Az: 245.93 deg TVD: 5275.96 ft
s: 7 MD: 5360.27 ft Inc: 83.22 deg Az: 248.39 deg TVD: 5282.49 ft
s: 8 MD: 5391.08 ft Inc: 83.98 deg Az: 248.33 deg TVD: 5285.93 ft
s: 9 MD: 5422.47 ft Inc: 86.94 deg Az: 248.38 deg TVD: 5288.41 ft
s: 10 MD: 5453.82 ft Inc: 90.17 deg Az: 248.34 deg TVD: 5289.20 ft
s: 11 MD: 5485.01 ft Inc: 90.20 deg Az: 248.03 deg TVD: 5289.10 ft


Rotating 5522'
5550
Rotating 5553'
Sliding 5569'
Rotating 5575'
Rotating 5585'
5600
Rotating 5607
Sliding 5616'
Rotating 5623
Rotating 5648'
5650
Sliding 5662
Rotating 5677
Rotating 5694
5700
Sliding 5711
Sliding 5722
Rotating 5728'
s: 12 MD: 5516.48 ft Inc: 92.59 deg Az: 247.67 deg TVD: 5288.34 ft
s: 13 MD: 5548.22 ft Inc: 91.95 deg Az: 247.86 deg TVD: 5287.08 ft
s: 14 MD: 5579.70 ft Inc: 91.35 deg Az: 247.91 deg TVD: 5286.17 ft
s: 15 MD: 5611.33 ft Inc: 91.99 deg Az: 248.12 deg TVD: 5285.25 ft
s: 16 MD: 5642.65 ft Inc: 91.81 deg Az: 249.29 deg TVD: 5284.21 ft
s: 17 MD: 5674.74 ft Inc: 88.18 deg Az: 248.99 deg TVD: 5284.21 ft
s: 18 MD: 5706.33 ft Inc: 86.06 deg Az: 247.57 deg TVD: 5285.80 ft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Rotating 5785'
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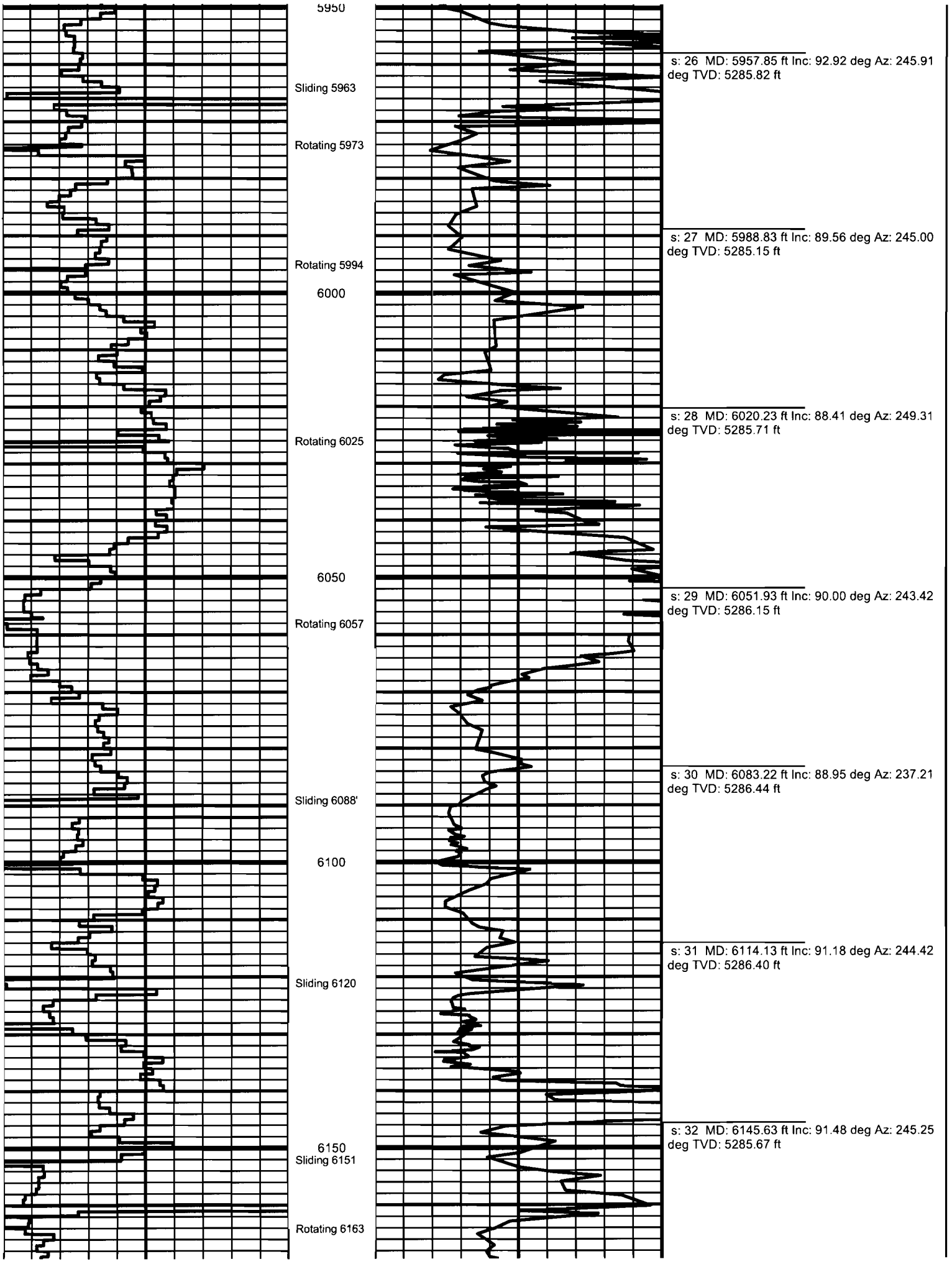
Rotating 5806
Sliding 5838
Rotating 5848
5850
Rotating 5869
5900
Rotating 5900
Sliding 5915
Rotating 5925
Rotating 5932
s: 19 MD: 5737.98 ft Inc: 88.32 deg Az: 246.56 deg TVD: 5287.35 ft
s: 20 MD: 5769.66 ft Inc: 89.63 deg Az: 246.25 deg TVD: 5287.92 ft
s: 21 MD: 5800.00 ft Inc: 88.02 deg Az: 245.08 deg TVD: 5288.54 ft
s: 22 MD: 5832.55 ft Inc: 89.76 deg Az: 244.27 deg TVD: 5289.17 ft
s: 23 MD: 5863.67 ft Inc: 92.05 deg Az: 245.65 deg TVD: 5288.68 ft
s: 24 MD: 5895.30 ft Inc: 89.19 deg Az: 245.05 deg TVD: 5288.34 ft
s: 25 MD: 5926.80 ft Inc: 93.57 deg Az: 245.45 deg TVD: 5287.58 ft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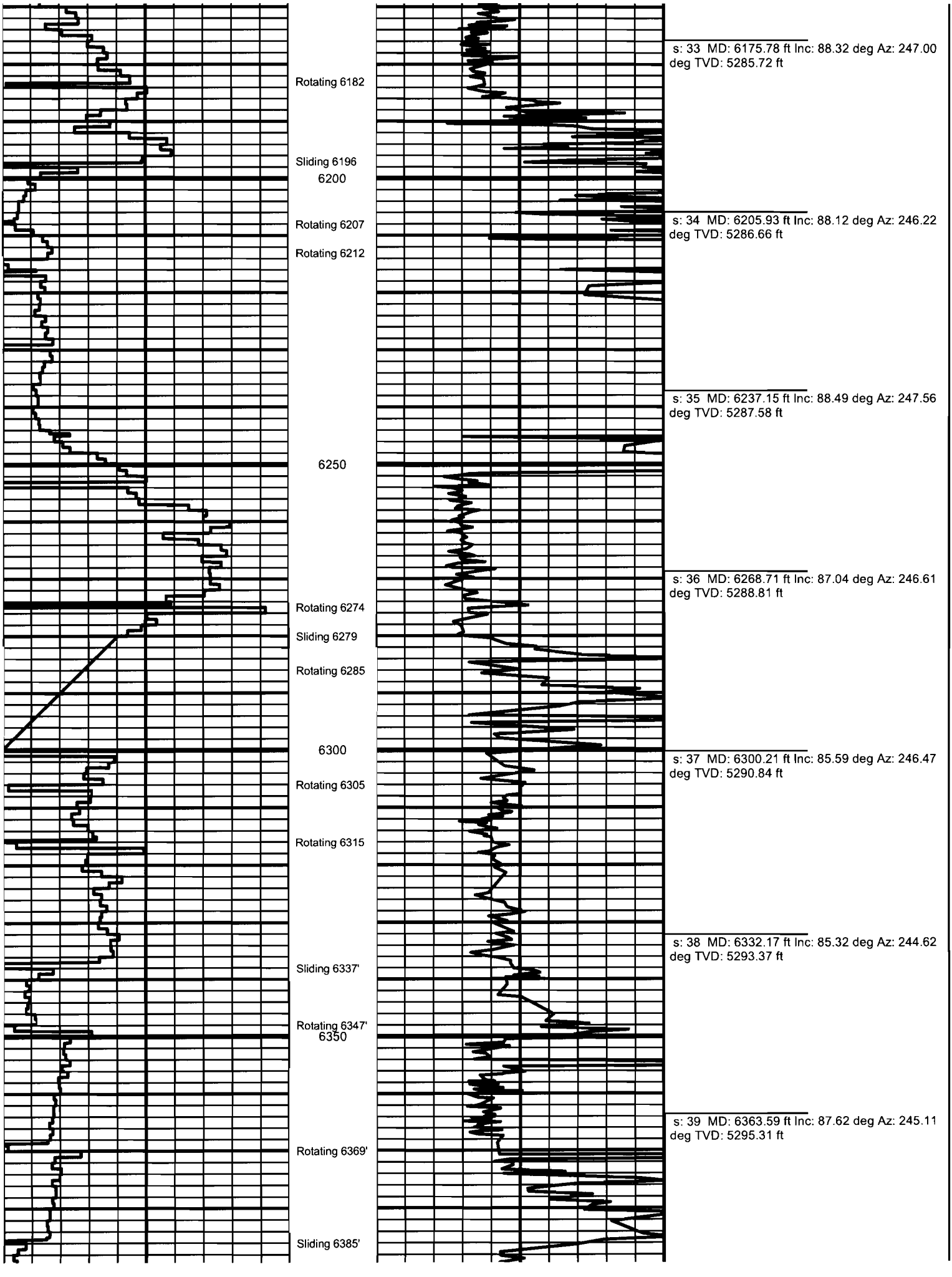
Sliding 5963
Rotating 5973
Rotating 5994
6000
Rotating 6025
6050
Rotating 6057
Sliding 6088'
6100
Sliding 6120
6150
Sliding 6151
Rotating 6163
s: 26 MD: 5957.85 ft Inc: 92.92 deg Az: 245.91 deg TVD: 5285.82 ft
s: 27 MD: 5988.83 ft Inc: 89.56 deg Az: 245.00 deg TVD: 5285.15 ft
s: 28 MD: 6020.23 ft Inc: 88.41 deg Az: 249.31 deg TVD: 5285.71 ft
s: 29 MD: 6051.93 ft Inc: 90.00 deg Az: 243.42 deg TVD: 5286.15 ft
s: 30 MD: 6083.22 ft Inc: 88.95 deg Az: 237.21 deg TVD: 5286.44 ft
s: 31 MD: 6114.13 ft Inc: 91.18 deg Az: 244.42 deg TVD: 5286.40 ft
s: 32 MD: 6145.63 ft Inc: 91.48 deg Az: 245.25 deg TVD: 5285.67 ft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Rotating 6207
Rotating 6212
6250
Rotating 6274
Sliding 6279
Rotating 6285
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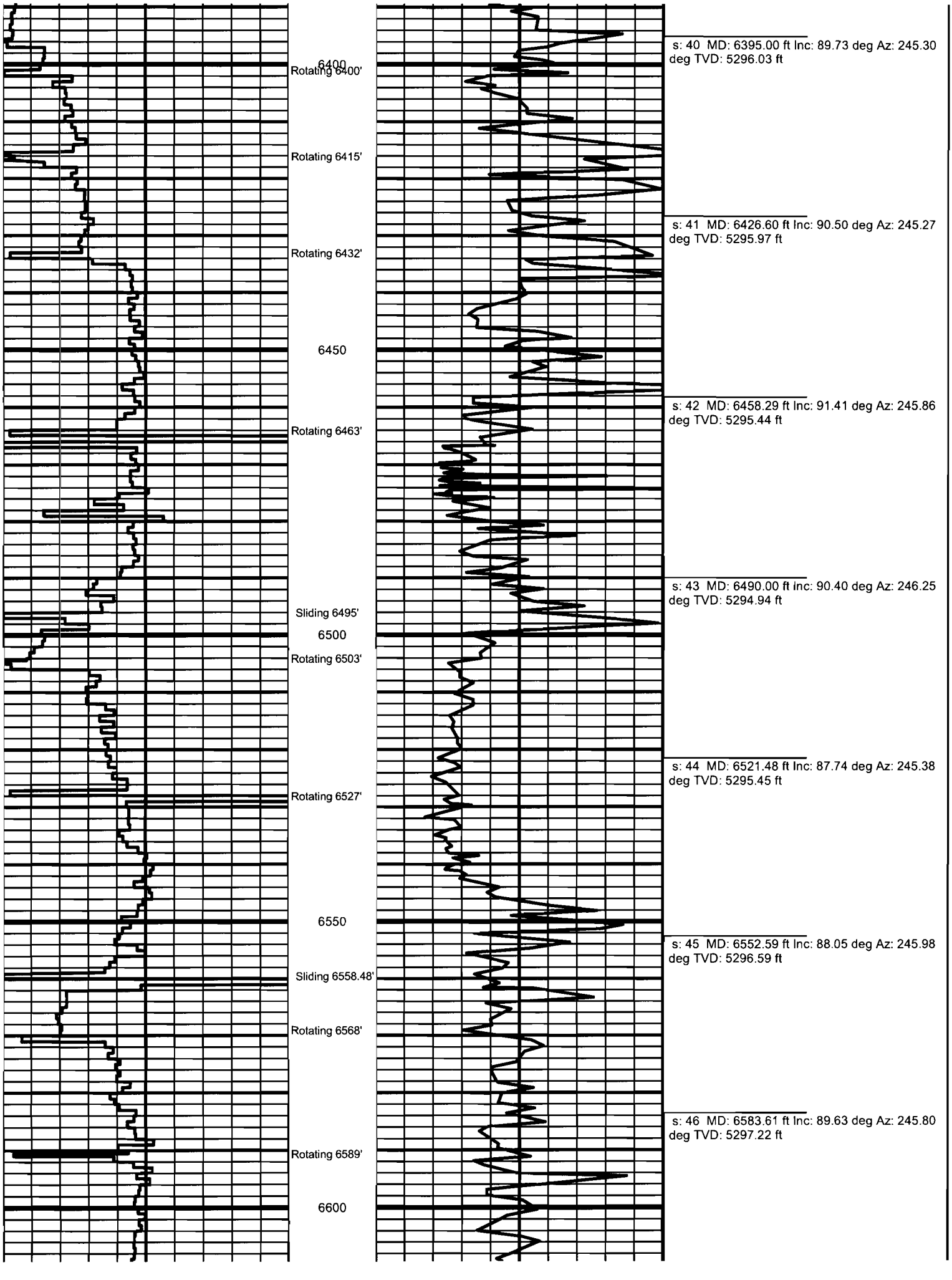
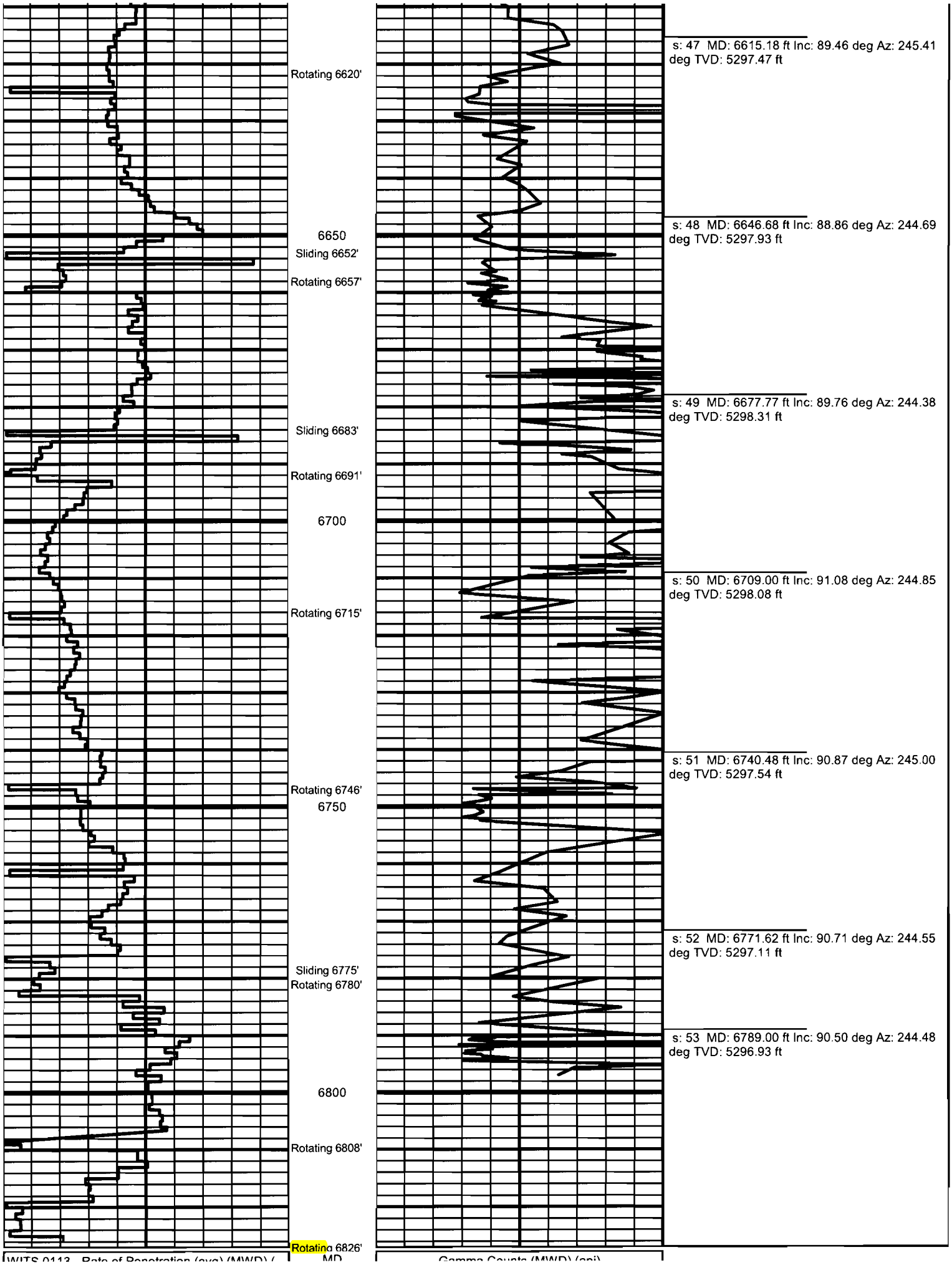
Rotating 6305
Rotating 6315
Sliding 6337'
Rotating 6347'
6350
Rotating 6369'
Sliding 6385'
s: 33 MD: 6175.78 ft Inc: 88.32 deg Az: 247.00 deg TVD: 5285.72 ft
s: 34 MD: 6205.93 ft Inc: 88.12 deg Az: 246.22 deg TVD: 5286.66 ft
s: 35 MD: 6237.15 ft Inc: 88.49 deg Az: 247.56 deg TVD: 5287.58 ft
s: 36 MD: 6268.71 ft Inc: 87.04 deg Az: 246.61 deg TVD: 5288.81 ft
s: 37 MD: 6300.21 ft Inc: 85.59 deg Az: 246.47 deg TVD: 5290.84 ft
s: 38 MD: 6332.17 ft Inc: 85.32 deg Az: 244.62 deg TVD: 5293.37 ft
s: 39 MD: 6363.59 ft Inc: 87.62 deg Az: 245.11 deg TVD: 5295.31 ft


6400
Rotating 6400'
Rotating 6415'
Rotating 6432'
6450
Rotating 6463'
Sliding 6495'
6500
Rotating 6503'
Rotating 6527'
6550
Sliding 6558.48'
Rotating 6568'
Rotating 6589'
6600
s: 40 MD: 6395.00 ft Inc: 89.73 deg Az: 245.30 deg TVD: 5296.03 ft
s: 41 MD: 6426.60 ft Inc: 90.50 deg Az: 245.27 deg TVD: 5295.97 ft
s: 42 MD: 6458.29 ft Inc: 91.41 deg Az: 245.86 deg TVD: 5295.44 ft
s: 43 MD: 6490.00 ft Inc: 90.40 deg Az: 246.25 deg TVD: 5294.94 ft
s: 44 MD: 6521.48 ft Inc: 87.74 deg Az: 245.38 deg TVD: 5295.45 ft
s: 45 MD: 6552.59 ft Inc: 88.05 deg Az: 245.98 deg TVD: 5296.59 ft
s: 46 MD: 6583.61 ft Inc: 89.63 deg Az: 245.80 deg TVD: 5297.22 ft


Rotating 6620'
6650
Sliding 6652'
Rotating 6657'
Sliding 6683'
Rotating 6691'
6700
Rotating 6715'
Rotating 6746'
6750
Sliding 6775'
Rotating 6780'
6800
Rotating 6808'
Rotating 6826'
s: 47 MD: 6615.18 ft Inc: 89.46 deg Az: 245.41 deg TVD: 5297.47 ft
s: 48 MD: 6646.68 ft Inc: 88.86 deg Az: 244.69 deg TVD: 5297.93 ft
s: 49 MD: 6677.77 ft Inc: 89.76 deg Az: 244.38 deg TVD: 5298.31 ft
s: 50 MD: 6709.00 ft Inc: 91.08 deg Az: 244.85 deg TVD: 5298.08 ft
s: 51 MD: 6740.48 ft Inc: 90.87 deg Az: 245.00 deg TVD: 5297.54 ft
s: 52 MD: 6771.62 ft Inc: 90.71 deg Az: 244.55 deg TVD: 5297.11 ft
s: 53 MD: 6789.00 ft Inc: 90.50 deg Az: 244.48 deg TVD: 5296.93 ft
MD
Gamma Counts (MWD) (api)

WITS 0113 - Rate of Penetration (avg) (MWD) (...
[1.00] [150.00]

MD
1:240 (ft)

Gamma Counts (MWD) (api)
[1.00] [75.00]

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ (highlight changes) FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: Indian 14-20-603-5449
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo Tribe
7. UNIT or CA AGREEMENT NAME: McElmo Creek Unit
8. WELL NAME and NUMBER: MCU E-19 Lateral #2
9. API NUMBER: 4303716342
10. FIELD AND POOL, OR WILDCAT: Greater Aneth

1a. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ DRY ☐ OTHER

b. TYPE OF WORK: NEW WELL ☐ HORIZ. LATS. ☑ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER

2. NAME OF OPERATOR: Resolute Natural Resources Co.

3. ADDRESS OF OPERATOR: 1675 Broadway, #1950 CITY Denver STATE CO ZIP 80202 PHONE NUMBER: (303) 534-4600

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 1980' FSL and 660' FEL
AT TOP PRODUCING INTERVAL REPORTED BELOW: 1977' FSL and 775' FEL, 11-41S-24E
AT TOTAL DEPTH: 4048" FSL and 248' FWL, 12-41S-24E

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 11 41S 24E S
12. COUNTY: San Juan
13. STATE: UTAH

14. DATE SPUDDED: 6/1/2007
15. DATE T.D. REACHED: 6/28/2007
16. DATE COMPLETED: 7/1/2007 ABANDONED ☐ READY TO PRODUCE ☑
17. ELEVATIONS (DF, RKB, RT, GL): RKB

18. TOTAL DEPTH: MD 7,424 TVD ~~5,259~~ 5261
19. PLUG BACK T.D.: MD TVD
20. IF MULTIPLE COMPLETIONS, HOW MANY? *
21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
Gamma Ray
LATERAL 2

23.
WAS WELL CORED? NO ☑ YES ☐ (Submit analysis)
WAS DST RUN? NO ☑ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☐ YES ☑ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
4 3/4" OH									

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) Desert Creek	5,489	7,424	5,279	5,259
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

29. ENCLOSED ATTACHMENTS:

☑ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☑ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER:

30. WELL STATUS: PRO

(5/2000)

(CONTINUED ON BACK)

31. INITIAL PRODUCTION — **INTERVAL A (As shown in item #26)**

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
8-17-07	8-17-07	24 hr		71	49	194	

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:
-	110	80								

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
Desert Creek	5,331	6,826			

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Dwight Mallory TITLE EH&S Coordinator

SIGNATURE [signature] DATE 11/7/07

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

Survey Name: Survey from Data Set 1 relative to true north
Well Name: Realtime: MCU E-19 Lat2
Date/Time: 06/27/2007 09:52:25 PM Mountain Daylight Time
Magnetic Decl.: 11.05
Grid Correction: 0
North Reference: TRUE
Section (VS) Ref.: 0.00N (ft), 0.00E (ft), 23.07Azim (deg)
Calculation Method: Minimum Curvature

MD	Incl	Azim	TVD	+N/-S	+E/-W	VS	DLS	Stat	Build	Turn
ft	deg	deg	ft	ft	ft	ft	deg/100ft		deg/100ft	deg/100ft
5100	0.69	87.8	5099	55.1	-18.9	43.3	n/a	TieIn	n/a	n/a
5142.8	13.97	18	5141	60	-17.1	48.5	32.1	1	31.01	-162.93
5174.3	24.59	14.4	5171	70	-14.2	58.8	33.94	2	33.74	-11.5
5205.5	34.01	16.4	5198	84.7	-10.2	73.9	30.38	3	30.22	6.44
5237.4	43.32	20.1	5223	103.6	-3.9	93.8	30.01	4	29.15	11.47
5268.8	52.3	23.2	5244	125.2	4.8	117	29.52	5	28.6	9.92
5300.4	62.17	23.1	5261	149.6	15.2	143.6	31.21	6	31.21	-0.36
5332	71.59	24.6	5274	176.1	26.9	172.6	30.2	7	29.88	4.81
5363.5	80.41	29	5281	203.4	40.8	203.1	31	8	27.91	13.93
5394.1	90.74	30.8	5284	229.8	55.9	233.3	34.3	9	33.82	5.76
5425.5	92.49	29.7	5283	256.9	71.7	264.4	6.55	10	5.56	-3.46
5456.8	95.12	32.3	5281	283.7	87.8	295.4	11.83	11	8.39	8.36
5488	93.7	31.8	5278	310	104.4	326.1	4.79	12	-4.54	-1.53
5519.5	91.55	30.4	5277	336.9	120.6	357.2	8.25	13	-6.85	-4.61
5551.3	90.5	29.5	5276	364.4	136.4	388.8	4.36	14	-3.28	-2.87
5582.7	87.64	26.6	5277	392.2	151.2	420.1	12.99	15	-9.08	-9.29
5614.4	87.07	26.4	5278	420.5	165.3	451.6	1.86	16	-1.8	-0.43
5645.7	88.69	27.4	5279	448.4	179.5	482.9	6	17	5.16	3.07
5677.8	91.31	27	5279	477	194.1	514.9	8.28	18	8.18	-1.28
5709.4	91.58	27.1	5279	505.1	208.5	546.4	0.98	19	0.85	0.49
5741	91.01	26.3	5278	533.4	222.7	578	3.25	20	-1.81	-2.71
5772.7	91.01	26.1	5277	561.8	236.6	609.6	0.68	21	0	-0.68
5804	91.34	26.1	5277	589.9	250.4	640.8	1.08	22	1.07	0.15
5835.6	90.67	26	5276	618.3	264.3	672.4	2.17	23	-2.13	-0.44
5866.7	89.29	25	5276	646.4	277.6	703.5	5.33	24	-4.43	-2.96
5898.3	88.55	24.6	5277	675.1	290.9	735.1	2.64	25	-2.34	-1.23
5929.8	87.45	22.5	5278	703.9	303.5	766.6	7.81	26	-3.52	-6.97
5960.9	88.65	22.8	5279	732.6	315.5	797.6	4.09	27	3.89	1.27
5991.9	91.38	23.7	5279	761	327.7	828.6	9.25	28	8.79	2.87
6023.3	90.57	23.4	5278	789.8	340.3	860	2.74	29	-2.57	-0.97
6055	90.13	23.5	5278	818.9	352.9	891.7	1.4	30	-1.38	0.22
6086.4	91.18	23.8	5278	847.6	365.5	923.1	3.43	31	3.33	0.83
6117.2	88.52	22.9	5278	875.9	377.7	953.9	9.03	32	-8.63	-2.66
6148.7	88.96	23.5	5278	904.8	390.1	985.3	2.3	33	1.38	1.84
6178.8	92.79	26	5278	932.2	402.7	1016	15.16	34	12.72	8.24
6209	92.73	26.1	5277	959.3	415.9	1046	0.36	35	-0.2	0.3
6240.2	91.34	25	5275	987.4	429.4	1077	5.61	36	-4.44	-3.43
6271.7	90.4	24.2	5275	1016	442.6	1108	3.89	37	-2.98	-2.5
6303.2	88.66	22.5	5275	1045	455	1140	7.92	38	-5.55	-5.64
6335.2	89.76	22.1	5276	1075	467.2	1172	3.65	39	3.47	-1.12
6366.6	91.18	21.9	5275	1104	478.9	1203	4.53	40	4.49	-0.62
6398	90.54	22.5	5275	1133	490.8	1235	2.79	41	-2.03	1.91
6429.6	89.6	22.1	5275	1162	502.8	1266	3.26	42	-2.98	-1.33
6461.3	89.03	20.8	5275	1192	514.4	1298	4.33	43	-1.8	-3.93
6493	89.03	21.3	5276	1221	525.8	1330	1.42	44	0	1.42
6524.5	89.56	20.8	5276	1251	537.1	1361	2.36	45	1.71	-1.62
6555.6	87.85	20.1	5277	1280	547.9	1392	5.94	46	-5.52	-2.19
6586.7	87.48	20.6	5278	1309	558.7	1423	2.06	47	-1.19	1.69
6618.3	88.55	20.4	5279	1338	569.8	1455	3.46	48	3.41	-0.58
6649.8	90.44	21.1	5280	1368	581	1486	6.34	49	5.98	2.09
6680.9	93.5	22.2	5278	1397	592.4	1517	10.43	50	9.86	3.39
6712.1	95.65	22.2	5276	1425	604.2	1548	6.9	51	6.89	0.21
6743.6	93.44	20.7	5273	1455	615.7	1580	8.48	52	-7.05	-4.73
6774.7	91.04	20.3	5272	1484	626.6	1611	7.81	53	-7.68	-1.41
6806.1	95.89	22.1	5270	1513	637.9	1642	16.44	54	15.44	5.66
6837.9	97.56	22.2	5267	1542	649.8	1674	5.24	55	5.23	0.37
6869	94.41	23	5263	1571	661.7	1705	10.48	56	-10.14	2.67
6900.8	90.84	23.5	5262	1600	674.2	1736	11.31	57	-11.21	1.49
6931.9	90.6	23.6	5262	1629	686.6	1767	0.82	58	-0.75	0.33
6963.7	90.5	25.1	5261	1657	699.7	1799	4.79	59	-0.32	4.78
6995.2	90.27	25.4	5261	1686	713.2	1831	1.26	60	-0.74	1.02
7027.1	90	25.8	5261	1715	727	1863	1.37	61	-0.84	1.08
7058.7	92.22	27.9	5260	1743	741.3	1894	9.81	62	7.04	6.84
7090.6	90	26.5	5260	1771	755.8	1926	8.38	63	-6.97	-4.65

Survey Name: Survey from Data Set 1 relative to true north
Well Name: Realtime: MCU E-19 Lat2
Date/Time: 06/27/2007 09:52:25 PM Mountain Daylight Time
Magnetic Decl.: 11.05
Grid Correction: 0
North Reference: TRUE
Section (VS) Ref.: 0.00N (ft), 0.00E (ft), 23.07Azim (deg)
Calculation Method: Minimum Curvature

7121.8	89.63	28.6	5260	1799	770.2	1957	7.12	64	-1.19	7.02	
7153.6	91.04	29.3	5260	1827	785.6	1989	4.86	65	4.44	1.98	
7185.6	92.66	29	5259	1855	801.2	2020	5.1	66	5.03	-0.86	
7217.1	90.61	27.3	5258	1883	816.1	2052	8.49	67	-6.51	-5.44	
7248.7	88.59	26.5	5258	1911	830.4	2083	6.86	68	-6.39	-2.5	
7280.1	90.74	26.6	5258	1939	844.4	2115	6.86	69	6.85	0.19	
7311.9	88.79	26.2	5258	1967	858.5	2146	6.25	70	-6.14	-1.19	
7343.4	90.4	26.7	5258	1995	872.5	2178	5.37	71	5.12	1.59	
7374.3	88.11	25.7	5259	2023	886.1	2209	8.07	72	-7.4	-3.23	
7389	87.41	26.1	5259	2036	892.5	2223	5.5	73	-4.77	2.74	
7424	*88*	*26*	*5261*	*2068*	*907.8*	*2258*					*projected to bit*

Scientific Drilling

MCU E-19 Lat 3 MD Logs

GAMMA-RAY
DIRECTIONAL

5" = 100'

FEET MD

COMPANY : Resolute Natural Resources
WELL : Realtime: MCU E-19 Lat3
FIELD : McElmo Unit
COUNTY : San Juan
STATE : Utah
COUNTRY : U.S.A.
API NO. :

COMPANY : Resolute Natural Resources

WELL : Realtime: MCU E-19 Lat3

FIELD : McElmo Unit

COUNTY : San Juan

STATE : Utah

COUNTRY : U.S.A.

API WELL NO. :

WELL LOCATION

Greater Aneth Field, McElmo Creek Unit
2.5 miles south-east of Montezuma Creek

SEC:11 TWP:41 S RANGE:24 E

OTHER SERVICES

DEPTH REF. : ROTARY TABLE

ELEVATION : 13 ft (ROTARY TABLE - GROUND LEVEL)

ALTITUDE : 4442.00 ft (GROUND LEVEL - MEAN SEA LEVEL)

BOREHOLE RECORD

HOLE SIZE in	FROM ft	TO ft

CASING RECORD

CASING SIZE in	FROM ft	TO ft

DEVIATION RECORD

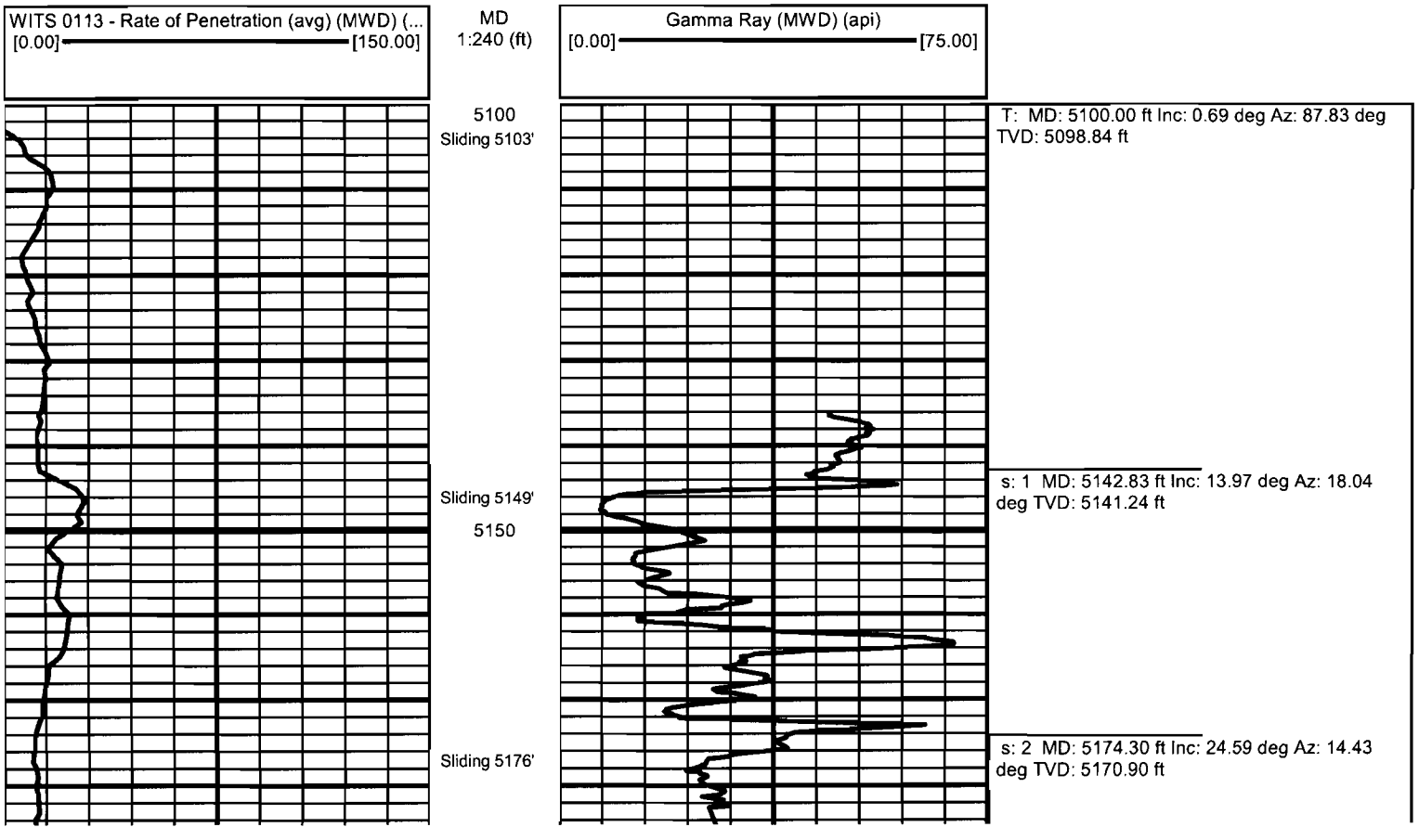
INCLINATION deg	FROM ft	TO ft
0 - 14	5100	5143
14 - 25	5143	5174
25 - 34	5174	5206
34 - 43	5206	5237
43 - 52	5237	5269
52 - 62	5269	5300
62 - 72	5300	5332
72 - 80	5332	5363
80 - 90	5363	5394

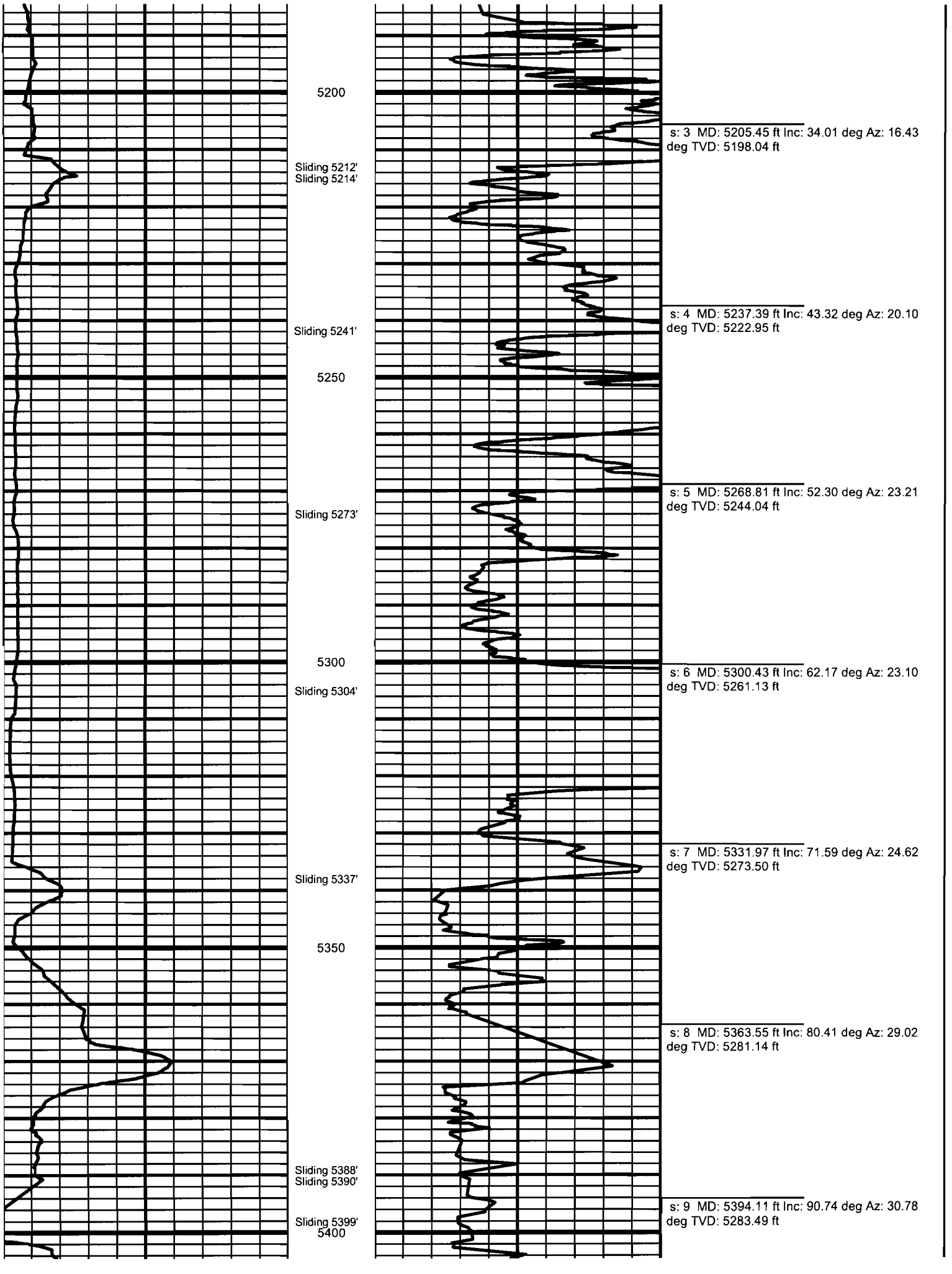
DRILLING CO. : Patterson UTI
RIG : 85
LWD UNIT NO. : 1 DISTRICT : 42 - Rifle
SPUD DATE : 06/19/07
LWD START DATE : 06/20/07 DEPTH : 5100 ft
LWD END DATE : 06/27/07 DEPTH : 7424 ft
TOTAL DEPTH : 2324 ft

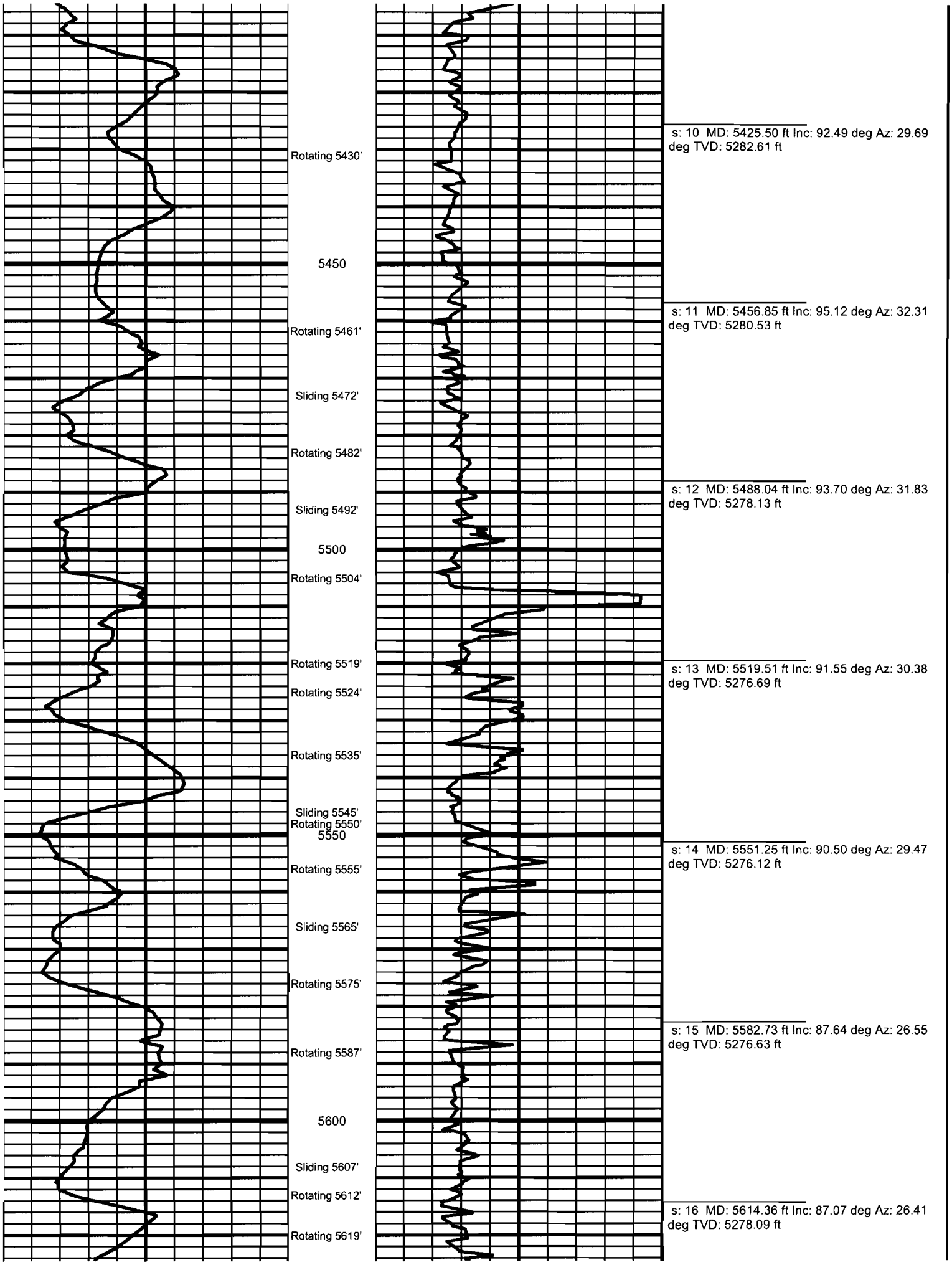
Run Data

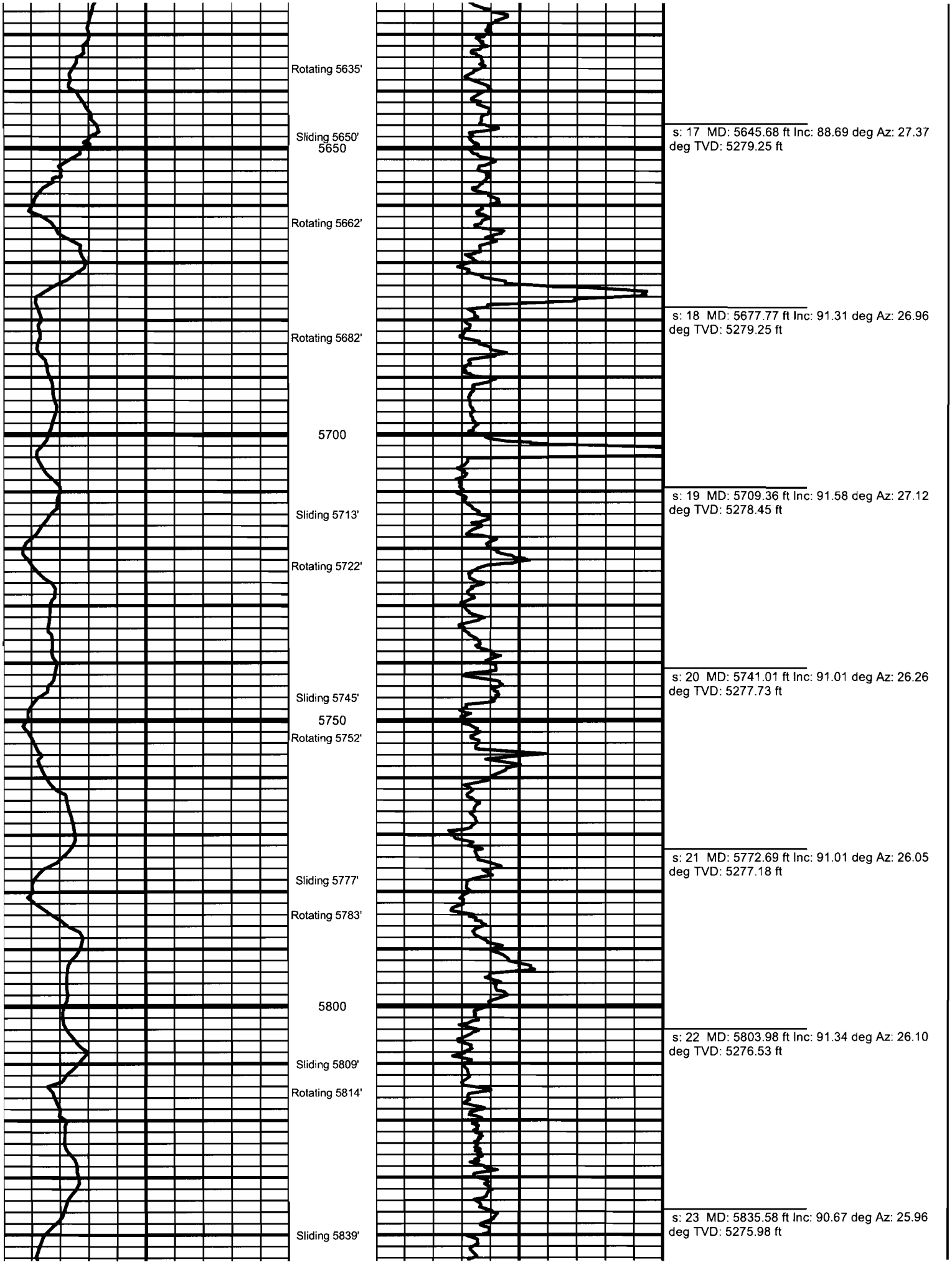
RUN NUMBER	1	2	3	4
START DATE	06/20/07	06/20/07	06/22/07	06/25/07
START TIME	0114	1715	0530	0945
END DATE	06/20/07	06/22/07	06/25/07	06/28/07
END TIME	1415	0100	0830	0745
DEPTH IN (ft)	5103	5214	5390	6609
DEPTH OUT (ft)	5214	5390	6609	7424
LOG TOP (ft)	5103	5214	5390	6609
LOG BOTTOM (ft)	5314	5390	6609	7424
HOLE SIZE (in)				
MUD DATA @ (ft)				
MUD TYPE				
DENSITY (lb / gal)				
VISCOSITY (s / qt)				
pH				
FLUID LOSS (cm3 / 30)				
SALINITY (ppm)				
Rm (ohmm @ deg F)				
Rmf (ohmm @ deg F)				
MAX TEMP (deg F)				
Rm @ MAX TEMP (ohmm)				
LWD ENGINEER #1	Jeromy Haggerty	Jeromy Haggerty	Jeromy Haggerty	Jeromy Haggerty
LWD ENGINEER #2	Adam Merha	Adam Merha	Garrett Wade	Garrett Wade
LWD ENGINEER #3	Turner Arnold	Turner Arnold	Turner Arnold	Turner Arnold

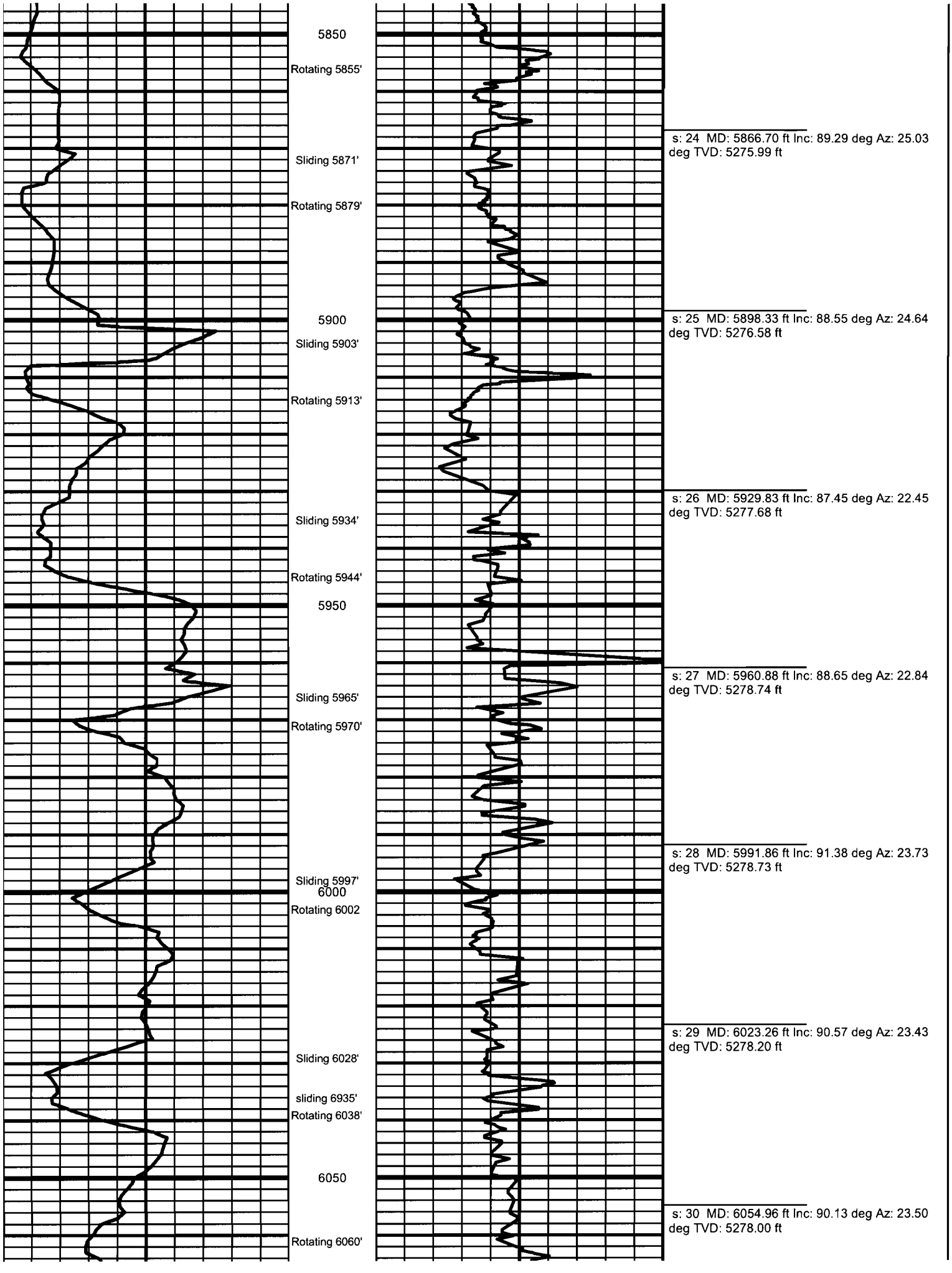
Remarks
Company PRODUCTION AFE# 07012
SCIENTIFIC DRILLING INTERNATIONAL JOB# 42DEF0706498
SCIENTIFIC DRILLING INTERNATIONAL WO# 111318
ALL REFERENCES IN THE DEPTH TRACK ARE AT BIT DEPTH.
ALL DATA IS REALTIME DATA UNLESS STATED OTHERWISE.

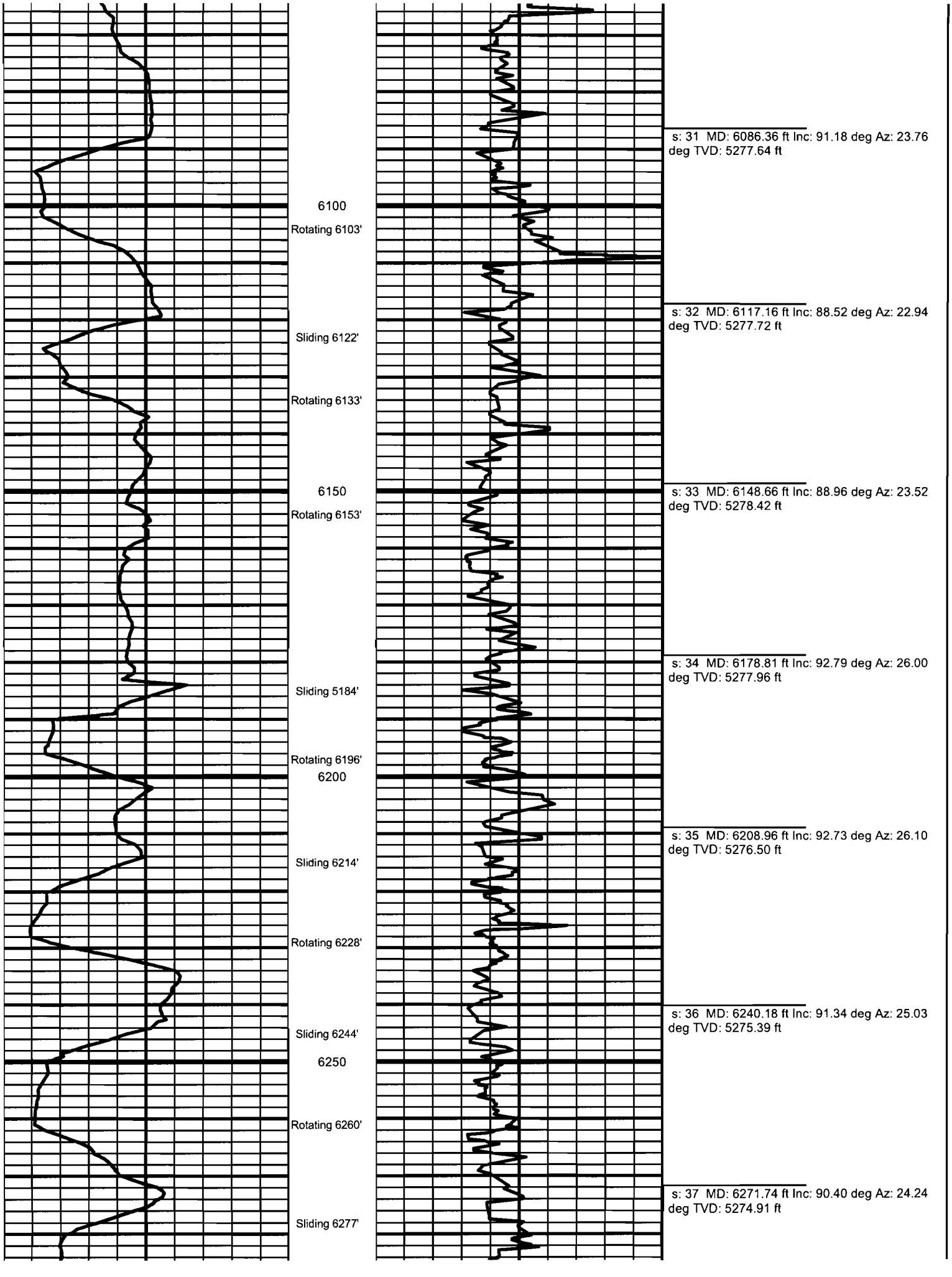



5200
Sliding 5212'
Sliding 5214'
Sliding 5241'
5250
Sliding 5273'
5300
Sliding 5304'
Sliding 5337'
5350
Sliding 5388'
Sliding 5390'
Sliding 5399'
5400
s: 3 MD: 5205.45 ft Inc: 34.01 deg Az: 16.43 deg TVD: 5198.04 ft
s: 4 MD: 5237.39 ft Inc: 43.32 deg Az: 20.10 deg TVD: 5222.95 ft
s: 5 MD: 5268.81 ft Inc: 52.30 deg Az: 23.21 deg TVD: 5244.04 ft
s: 6 MD: 5300.43 ft Inc: 62.17 deg Az: 23.10 deg TVD: 5261.13 ft
s: 7 MD: 5331.97 ft Inc: 71.59 deg Az: 24.62 deg TVD: 5273.50 ft
s: 8 MD: 5363.55 ft Inc: 80.41 deg Az: 29.02 deg TVD: 5281.14 ft
s: 9 MD: 5394.11 ft Inc: 90.74 deg Az: 30.78 deg TVD: 5283.49 ft


Rotating 5430'
5450
Rotating 5461'
Sliding 5472'
Rotating 5482'
Sliding 5492'
5500
Rotating 5504'
Rotating 5519'
Rotating 5524'
Rotating 5535'
Sliding 5545'
Rotating 5550'
5550
Rotating 5555'
Sliding 5565'
Rotating 5575'
Rotating 5587'
5600
Sliding 5607'
Rotating 5612'
Rotating 5619'
s: 10 MD: 5425.50 ft Inc: 92.49 deg Az: 29.69 deg TVD: 5282.61 ft
s: 11 MD: 5456.85 ft Inc: 95.12 deg Az: 32.31 deg TVD: 5280.53 ft
s: 12 MD: 5488.04 ft Inc: 93.70 deg Az: 31.83 deg TVD: 5278.13 ft
s: 13 MD: 5519.51 ft Inc: 91.55 deg Az: 30.38 deg TVD: 5276.69 ft
s: 14 MD: 5551.25 ft Inc: 90.50 deg Az: 29.47 deg TVD: 5276.12 ft
s: 15 MD: 5582.73 ft Inc: 87.64 deg Az: 26.55 deg TVD: 5276.63 ft
s: 16 MD: 5614.36 ft Inc: 87.07 deg Az: 26.41 deg TVD: 5278.09 ft


Rotating 5635'
Sliding 5650'
5650
Rotating 5662'
Rotating 5682'
5700
Sliding 5713'
Rotating 5722'
Sliding 5745'
5750
Rotating 5752'
Sliding 5777'
Rotating 5783'
5800
Sliding 5809'
Rotating 5814'
Sliding 5839'
s: 17 MD: 5645.68 ft Inc: 88.69 deg Az: 27.37 deg TVD: 5279.25 ft
s: 18 MD: 5677.77 ft Inc: 91.31 deg Az: 26.96 deg TVD: 5279.25 ft
s: 19 MD: 5709.36 ft Inc: 91.58 deg Az: 27.12 deg TVD: 5278.45 ft
s: 20 MD: 5741.01 ft Inc: 91.01 deg Az: 26.26 deg TVD: 5277.73 ft
s: 21 MD: 5772.69 ft Inc: 91.01 deg Az: 26.05 deg TVD: 5277.18 ft
s: 22 MD: 5803.98 ft Inc: 91.34 deg Az: 26.10 deg TVD: 5276.53 ft
s: 23 MD: 5835.58 ft Inc: 90.67 deg Az: 25.96 deg TVD: 5275.98 ft


5850
Rotating 5855'
Sliding 5871'
Rotating 5879'
5900
Sliding 5903'
Rotating 5913'
Sliding 5934'
Rotating 5944'
5950
Sliding 5965'
Rotating 5970'
Sliding 5997'
6000
Rotating 6002
Sliding 6028'
sliding 6935'
Rotating 6038'
6050
Rotating 6060'
s: 24 MD: 5866.70 ft Inc: 89.29 deg Az: 25.03 deg TVD: 5275.99 ft
s: 25 MD: 5898.33 ft Inc: 88.55 deg Az: 24.64 deg TVD: 5276.58 ft
s: 26 MD: 5929.83 ft Inc: 87.45 deg Az: 22.45 deg TVD: 5277.68 ft
s: 27 MD: 5960.88 ft Inc: 88.65 deg Az: 22.84 deg TVD: 5278.74 ft
s: 28 MD: 5991.86 ft Inc: 91.38 deg Az: 23.73 deg TVD: 5278.73 ft
s: 29 MD: 6023.26 ft Inc: 90.57 deg Az: 23.43 deg TVD: 5278.20 ft
s: 30 MD: 6054.96 ft Inc: 90.13 deg Az: 23.50 deg TVD: 5278.00 ft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Rotating 6103'
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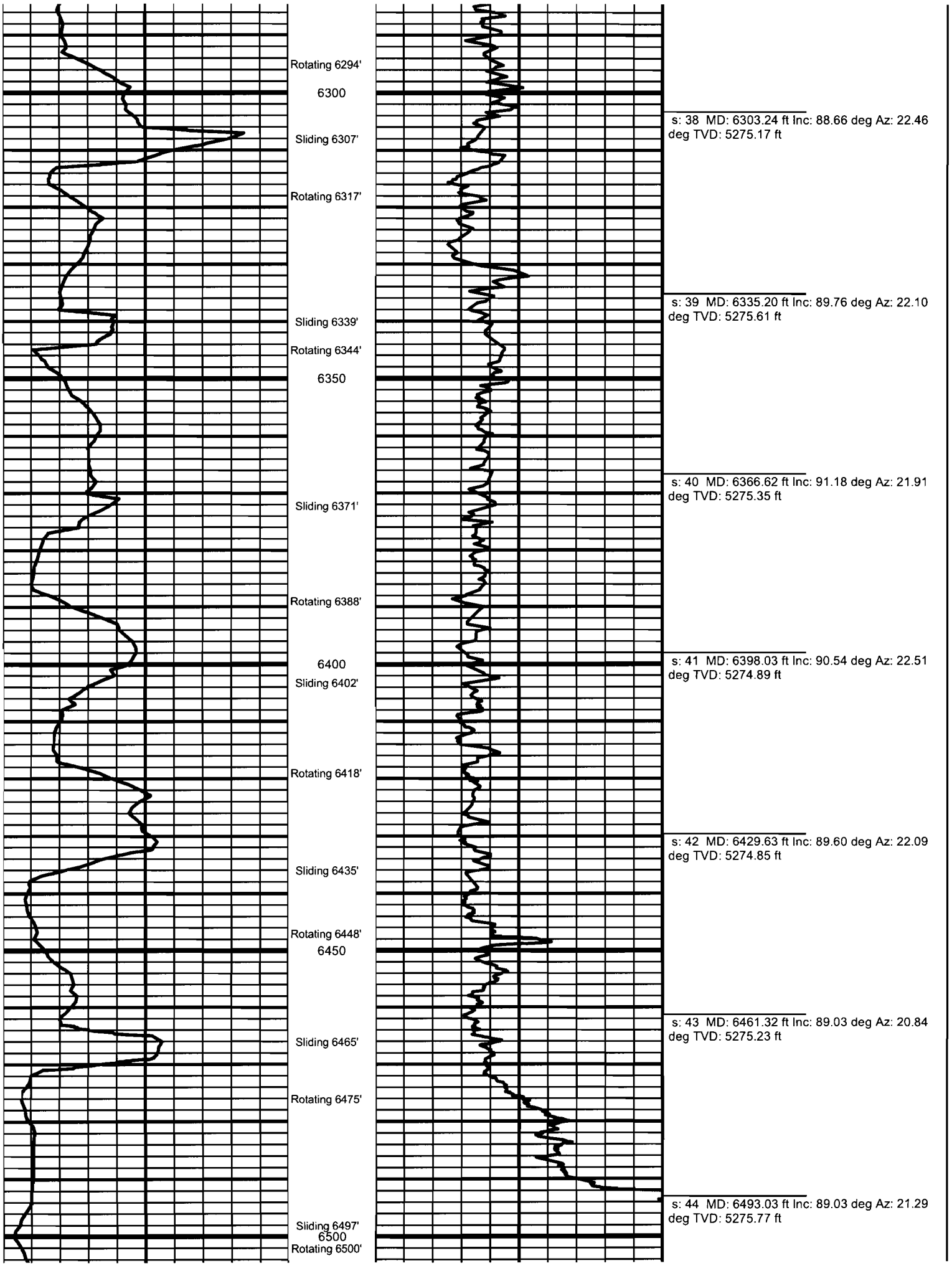
Rotating 6196'
6200
Sliding 6214'
Rotating 6228'
Sliding 6244'
6250
Rotating 6260'
Sliding 6277'
s: 31 MD: 6086.36 ft Inc: 91.18 deg Az: 23.76 deg TVD: 5277.64 ft
s: 32 MD: 6117.16 ft Inc: 88.52 deg Az: 22.94 deg TVD: 5277.72 ft
s: 33 MD: 6148.66 ft Inc: 88.96 deg Az: 23.52 deg TVD: 5278.42 ft
s: 34 MD: 6178.81 ft Inc: 92.79 deg Az: 26.00 deg TVD: 5277.96 ft
s: 35 MD: 6208.96 ft Inc: 92.73 deg Az: 26.10 deg TVD: 5276.50 ft
s: 36 MD: 6240.18 ft Inc: 91.34 deg Az: 25.03 deg TVD: 5275.39 ft
s: 37 MD: 6271.74 ft Inc: 90.40 deg Az: 24.24 deg TVD: 5274.91 ft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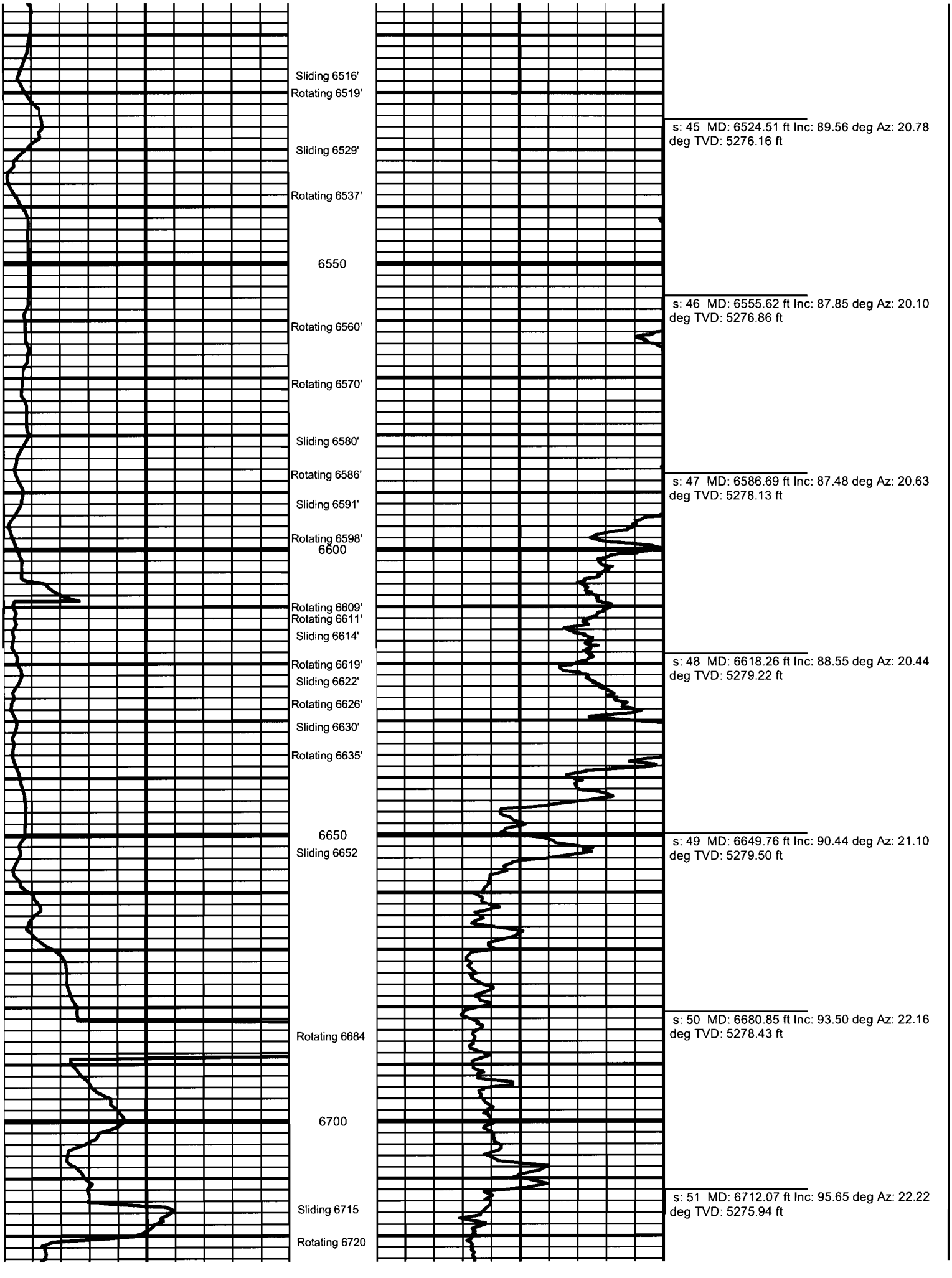
Sliding 6497'
6500
Rotating 6500'
s: 38 MD: 6303.24 ft Inc: 88.66 deg Az: 22.46 deg TVD: 5275.17 ft
s: 39 MD: 6335.20 ft Inc: 89.76 deg Az: 22.10 deg TVD: 5275.61 ft
s: 40 MD: 6366.62 ft Inc: 91.18 deg Az: 21.91 deg TVD: 5275.35 ft
s: 41 MD: 6398.03 ft Inc: 90.54 deg Az: 22.51 deg TVD: 5274.89 ft
s: 42 MD: 6429.63 ft Inc: 89.60 deg Az: 22.09 deg TVD: 5274.85 ft
s: 43 MD: 6461.32 ft Inc: 89.03 deg Az: 20.84 deg TVD: 5275.23 ft
s: 44 MD: 6493.03 ft Inc: 89.03 deg Az: 21.29 deg TVD: 5275.77 ft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Rotating 6626'
Sliding 6630'
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Sliding 6652
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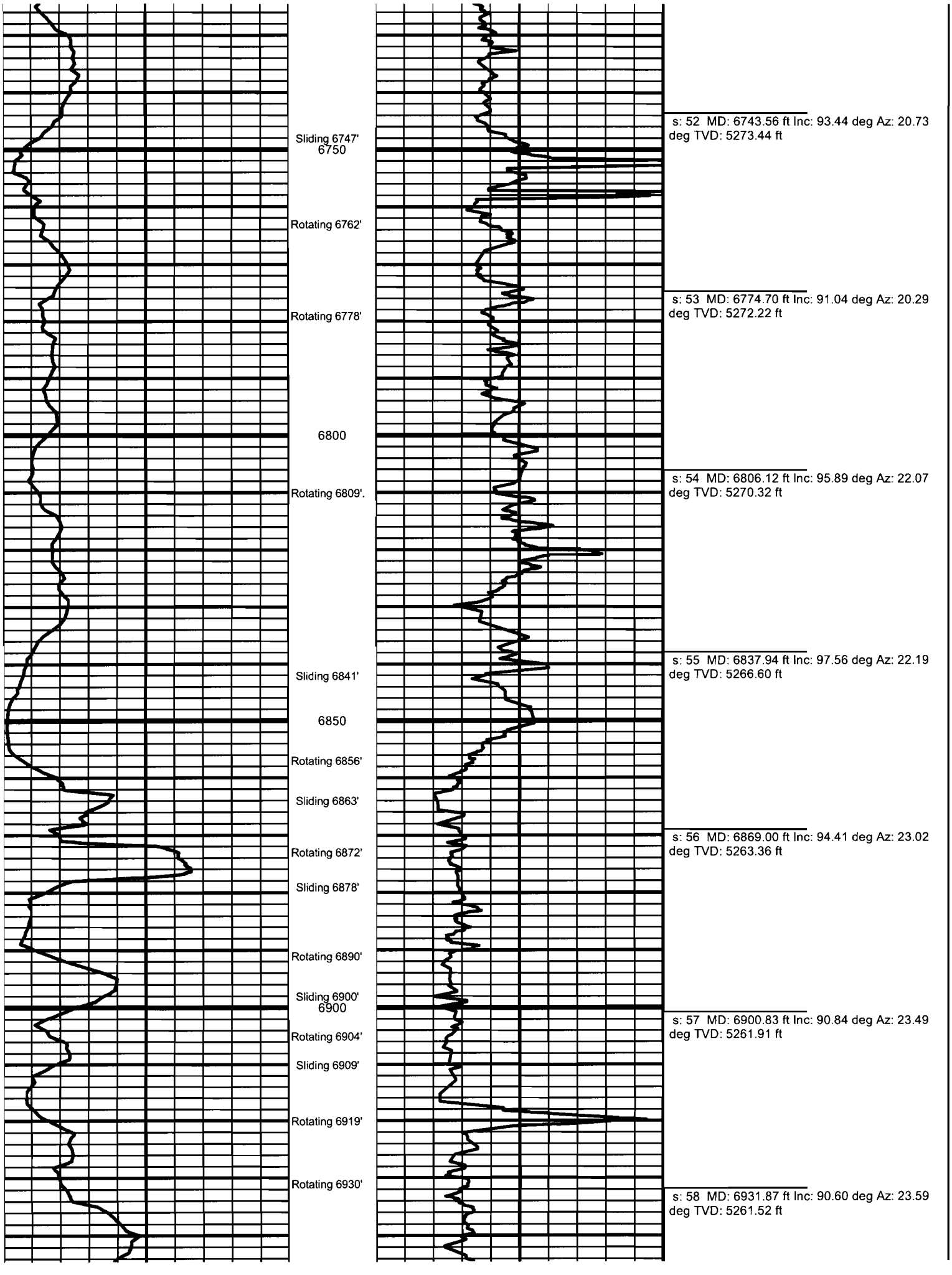
Sliding 6715
Rotating 6720
s: 45 MD: 6524.51 ft Inc: 89.56 deg Az: 20.78 deg TVD: 5276.16 ft
s: 46 MD: 6555.62 ft Inc: 87.85 deg Az: 20.10 deg TVD: 5276.86 ft
s: 47 MD: 6586.69 ft Inc: 87.48 deg Az: 20.63 deg TVD: 5278.13 ft
s: 48 MD: 6618.26 ft Inc: 88.55 deg Az: 20.44 deg TVD: 5279.22 ft
s: 49 MD: 6649.76 ft Inc: 90.44 deg Az: 21.10 deg TVD: 5279.50 ft
s: 50 MD: 6680.85 ft Inc: 93.50 deg Az: 22.16 deg TVD: 5278.43 ft
s: 51 MD: 6712.07 ft Inc: 95.65 deg Az: 22.22 deg TVD: 5275.94 ft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Sliding 6909'
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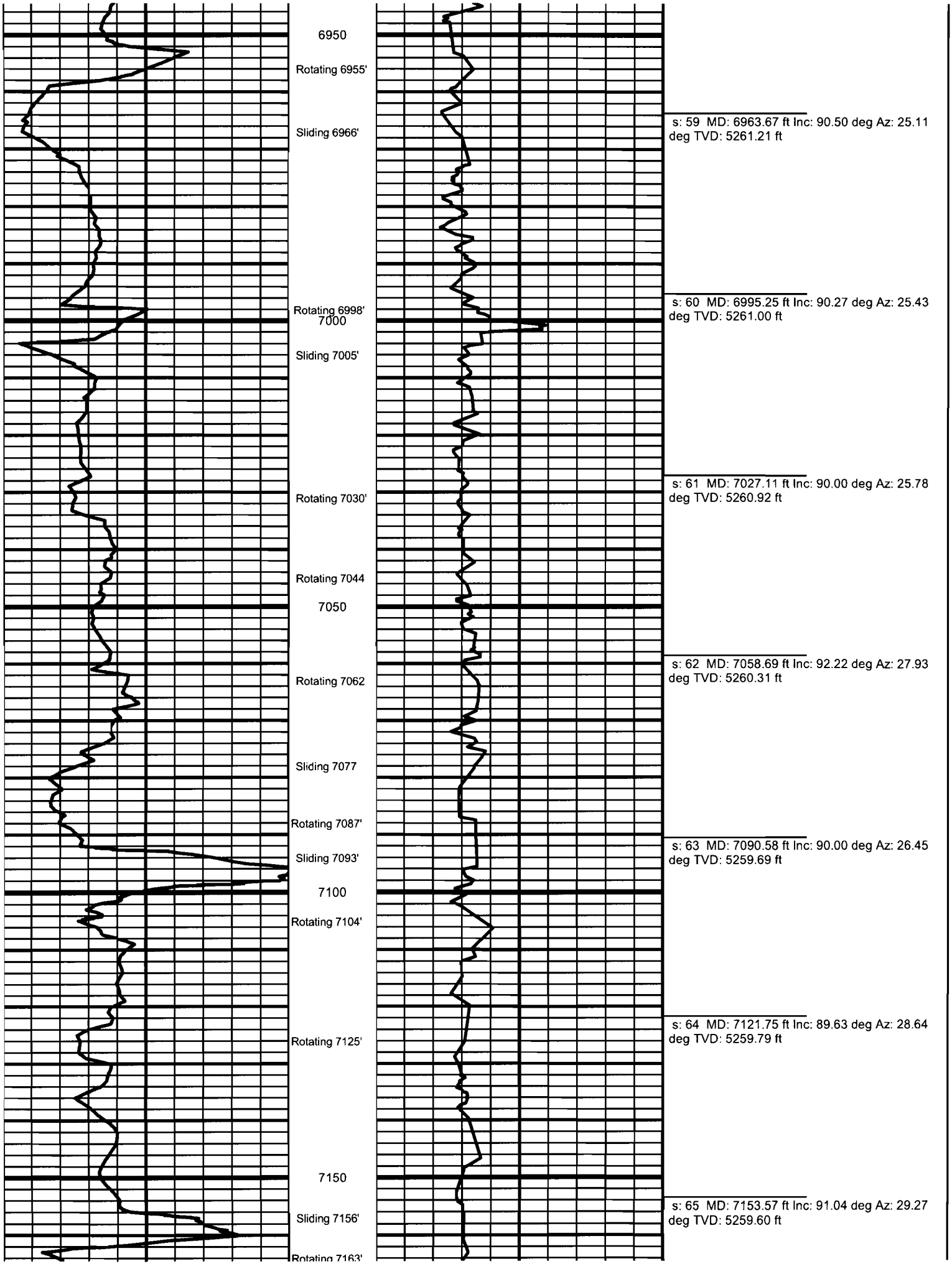
s: 52 MD: 6743.56 ft Inc: 93.44 deg Az: 20.73 deg TVD: 5273.44 ft
s: 53 MD: 6774.70 ft Inc: 91.04 deg Az: 20.29 deg TVD: 5272.22 ft
s: 54 MD: 6806.12 ft Inc: 95.89 deg Az: 22.07 deg TVD: 5270.32 ft
s: 55 MD: 6837.94 ft Inc: 97.56 deg Az: 22.19 deg TVD: 5266.60 ft
s: 56 MD: 6869.00 ft Inc: 94.41 deg Az: 23.02 deg TVD: 5263.36 ft
s: 57 MD: 6900.83 ft Inc: 90.84 deg Az: 23.49 deg TVD: 5261.91 ft
s: 58 MD: 6931.87 ft Inc: 90.60 deg Az: 23.59 deg TVD: 5261.52 ft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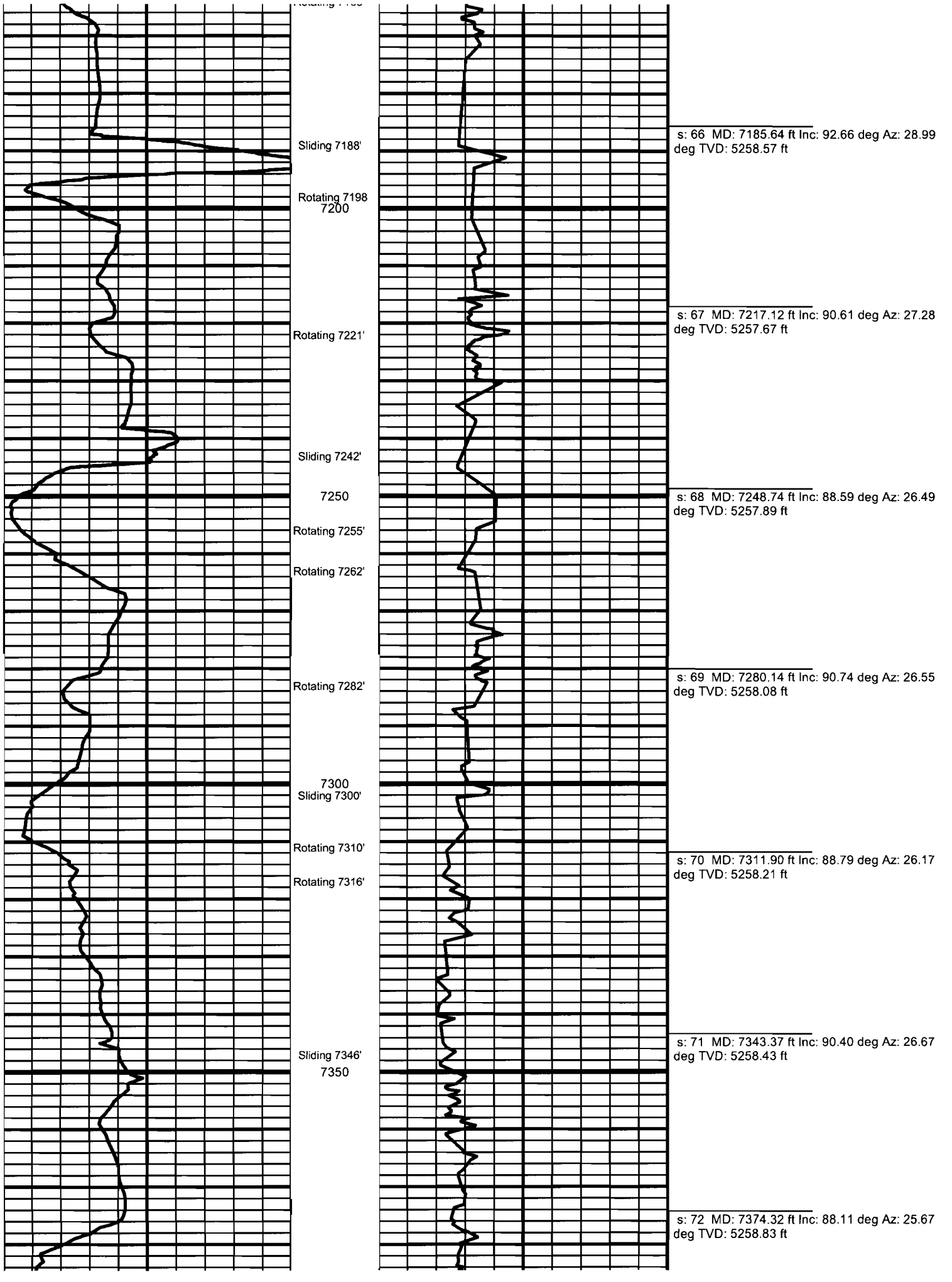
s: 59 MD: 6963.67 ft Inc: 90.50 deg Az: 25.11 deg TVD: 5261.21 ft
s: 60 MD: 6995.25 ft Inc: 90.27 deg Az: 25.43 deg TVD: 5261.00 ft
s: 61 MD: 7027.11 ft Inc: 90.00 deg Az: 25.78 deg TVD: 5260.92 ft
s: 62 MD: 7058.69 ft Inc: 92.22 deg Az: 27.93 deg TVD: 5260.31 ft
s: 63 MD: 7090.58 ft Inc: 90.00 deg Az: 26.45 deg TVD: 5259.69 ft
s: 64 MD: 7121.75 ft Inc: 89.63 deg Az: 28.64 deg TVD: 5259.79 ft
s: 65 MD: 7153.57 ft Inc: 91.04 deg Az: 29.27 deg TVD: 5259.60 ft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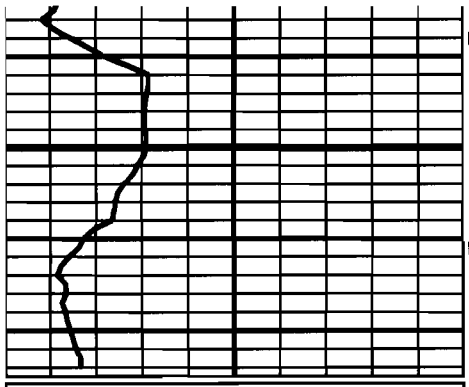
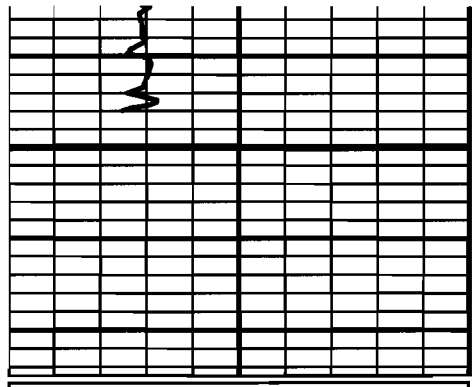
Rotating 7316'
Sliding 7346'
7350
s: 66 MD: 7185.64 ft Inc: 92.66 deg Az: 28.99 deg TVD: 5258.57 ft
s: 67 MD: 7217.12 ft Inc: 90.61 deg Az: 27.28 deg TVD: 5257.67 ft
s: 68 MD: 7248.74 ft Inc: 88.59 deg Az: 26.49 deg TVD: 5257.89 ft
s: 69 MD: 7280.14 ft Inc: 90.74 deg Az: 26.55 deg TVD: 5258.08 ft
s: 70 MD: 7311.90 ft Inc: 88.79 deg Az: 26.17 deg TVD: 5258.21 ft
s: 71 MD: 7343.37 ft Inc: 90.40 deg Az: 26.67 deg TVD: 5258.43 ft
s: 72 MD: 7374.32 ft Inc: 88.11 deg Az: 25.67 deg TVD: 5258.83 ft





s: 73 MD: 7389.00 ft Inc: 87.41 deg Az: 26.07 deg TVD: 5259.40 ft

WITS 0113 - Rate of Penetration (avg) (MWD) (...
[0.00] [150.00]

MD
1:240 (ft)

Gamma Ray (MWD) (api)
[0.00] [75.00]

Scientific Drilling

GAMMA-RAY
DIRECTIONAL

5" = 100'

FEET MD

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-5449

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO

7.UNIT or CA AGREEMENT NAME: MCELMO CREEK

1. TYPE OF WELL Water Injection Well

8. WELL NAME and NUMBER: NAVAJO D-2 (MCELMO E-19)

2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES

9. API NUMBER: 43037163420000

3. ADDRESS OF OPERATOR: 1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535

PHONE NUMBER: 303 534-4600 Ext

9. FIELD and POOL or WILDCAT: GREATER ANETH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1980 FSL 0660 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 11 Township: 41.0S Range: 24.0E Meridian: S

COUNTY: SAN JUAN

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
✓ SUBSEQUENT REPORT Date of Work Completion: 4/24/2012	✓ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
☐ SPUD REPORT Date of Spud:	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute tried to complete this well to a dual-lateral producer in 8-29-07, the well produced very briefly in 2008 and was worked-over in 9-08 with limited success. The well was determined to be in a good position for WAG injection in 2010 and was converted to an injection well and worked over from 2-1-10 to 12-23-10 with wellbore cleanup of paraffin the main issue. There was an additional work over in 4-26-12 to bring the well back to injection. Since that time, the well has undergone MIT tests with NNEPA witness on 4-24-12 and 4-21-15. Operations and wellbore diagram reports attached.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
March 22, 2016

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Sherry Glass	303 573-4886	Sr Regulatory Analyst
SIGNATURE N/A		**DATE** 3/9/2016

RECEIVED: Mar. 09, 2016

Operations QUICK Report

Well Name: MCU E-19

Well Information

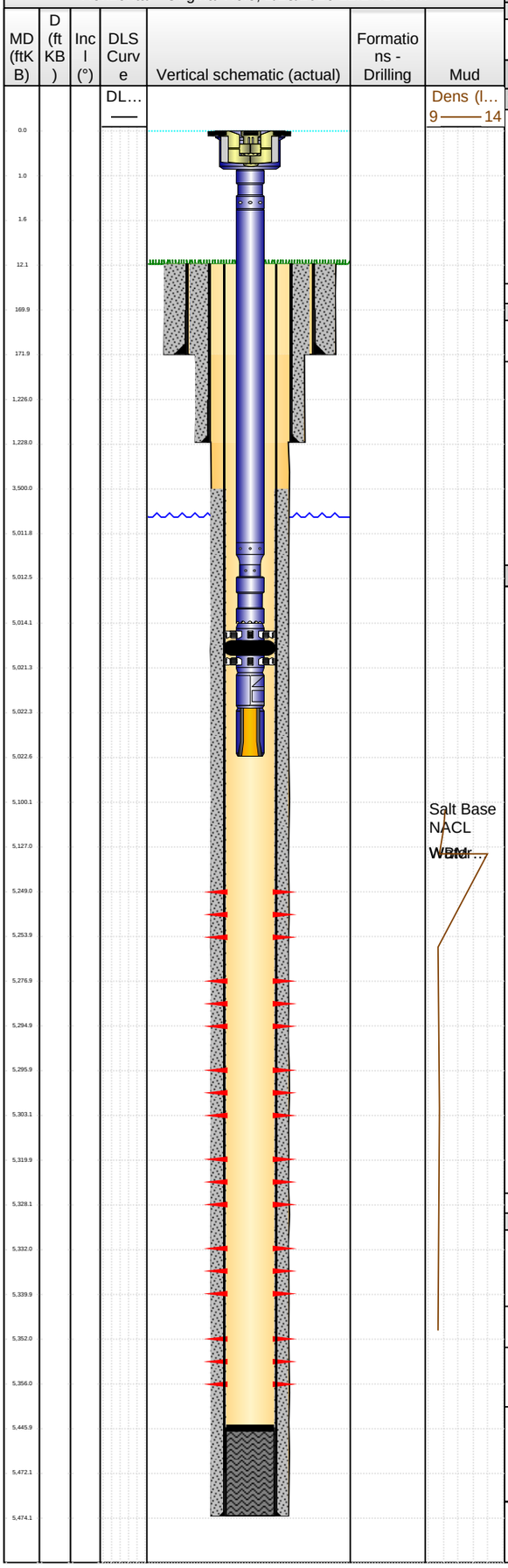
API Number	Enertia ID#	Field Name	Original KB Elevation (ft)	Ground Elevation (ft)	KB-Grd (ft)
4303716342	0480.01	McElmo Creek Unit	4,452.00	4,440.00	12.00

Asset Group	County	State/Province	Qtr/Qtr	North/South Distance (ft)	North/South Reference	East/West Distance (ft)	East/West Reference
Greater Aneth	San Juan	Utah	C NE SE	1,980.0	FSL	660.0	FEL

Latitude (°)	Longitude (°)	Section	Township	Block	Range
37° 14' 5.604" N	109° 14' 36.384" W	11	41S		24E

Permit Approval Date	Regulatory Spud Date	Total Depth Date	Rig Release Date/Time	First Production Date	Abandon Date/Time
	8/24/1960				

Horizontal - Original Hole, 2/25/2016 12:27:17 PM



Production Failures

Failure Date	Failure Des	Pump Runtime	Fail Typ	Cause	Est Fail (Cost)
2/20/2012	Packer Failure		Leak / Spill	Other	

All Jobs

Clean-out, 11/9/2006

Primary Job Type	Start Date	End Date	Objective	Summary
Clean-out	11/9/2006	11/10/2006	The referenced well will be cleaned out with coil tubing using acid. The purpose of the cleanout is to increase injectivity.	

Daily Operations

Start Date	End Date	Summary
11/9/2006	11/9/2006	Rode CTU to location, spot equipment,CTU stuck, WO backhoe to prep location. SION.
11/10/2006	11/10/2006	BJSA, RD injector head, PU 1 3/4 bit w/ 1 11/16 motor, tested, test good, RIH, 300' started blowing CO2/ Iron Sulfite, bled down for 15 mns, start Produced SW. choke freezing off,continue RIH, tagged at 5430', clean out, circ well, POOH LD bit, PU RIH w/ nozzle, tagged 5430' pump 990 gals 15 % acid across perf at 1 bpm, 1200 # WHP, 5000#i circ pressure, ISIP 1200#, SI 30 mins, cicr well, POOH LD wash nozzle, RD, weld 1 1/4 back pressure valve for next location. MO. Left well SI well was SI when move in CTU.

Drilling - re-entry, 5/22/2007

Primary Job Type	Start Date	End Date	Objective	Summary
Drilling - re-entry	5/22/2007	7/27/2007	Drill two re-entry laterals via window through 5-1/2" casing with a 4-3/4" bit. Lateral #1 will have ~1600' of horizontal span to the southwest and lateral #2 will have ~2250' of horizontal span to the northeast. Both laterals target the DC IA zone. The well will be prepped by a WSU placing packer for whipstock base and cutting the window. A drilling rig will perform remaining drilling operations. A submersible pump will be installed to test subsequent to drilling. After an adequate production testing period, this well will be converted back to a UIC injector. This AFE does not include the cost of stimulating the laterals. .	Resolute Natural Resources, operator of the McElmo Creek Unit, is seeking working interest recomplete the McElmo Creek Unit E-19. MCU E-19 is an injection well being drilled to support the D-18 producer well. This well IP'd at 80 BOPD and 203 BWPD but has since fallen off significantly due to lack of injection support. By drilling this well, we should see an increase of oil recovery and rates back to the initial conditions. The estimated IP of the flush production is expected to be around 70 BOPD. Operations Manager - Bob Brady (303) 534-4600, ext. 1135 Drilling & Workover Superintendent - Donnie Trimble (970) 564-5200 ext. 2120 .

Daily Operations

Start Date	End Date	Summary
5/22/2007	5/23/2007	Move rig from A.U. D-123 to location. Have dirt pad built up in front of cement pad for leveling jack's on rig. Spot in rig and equipment. Rig up. Shut down.
5/23/2007	5/24/2007	Change of order's. Rig down, move rig off of location. Move equipment off location.
5/24/2007	5/25/2007	build electrical power line to location, framed up power pole for transformer bank, strung 3 phase wire
5/25/2007	5/26/2007	Moved equipments over from RU 10-23, started on removing trees around the location, pulled the concrete pads that went around the well head and moved it off to the side of location, started cutting the dirt on location to level it out.

Operations QUICK Report

Well Name: MCU E-19

Well Information

API Number	Enertia ID#	Field Name	Original KB Elevation (ft)	Ground Elevation (ft)	KB-Grd (ft)
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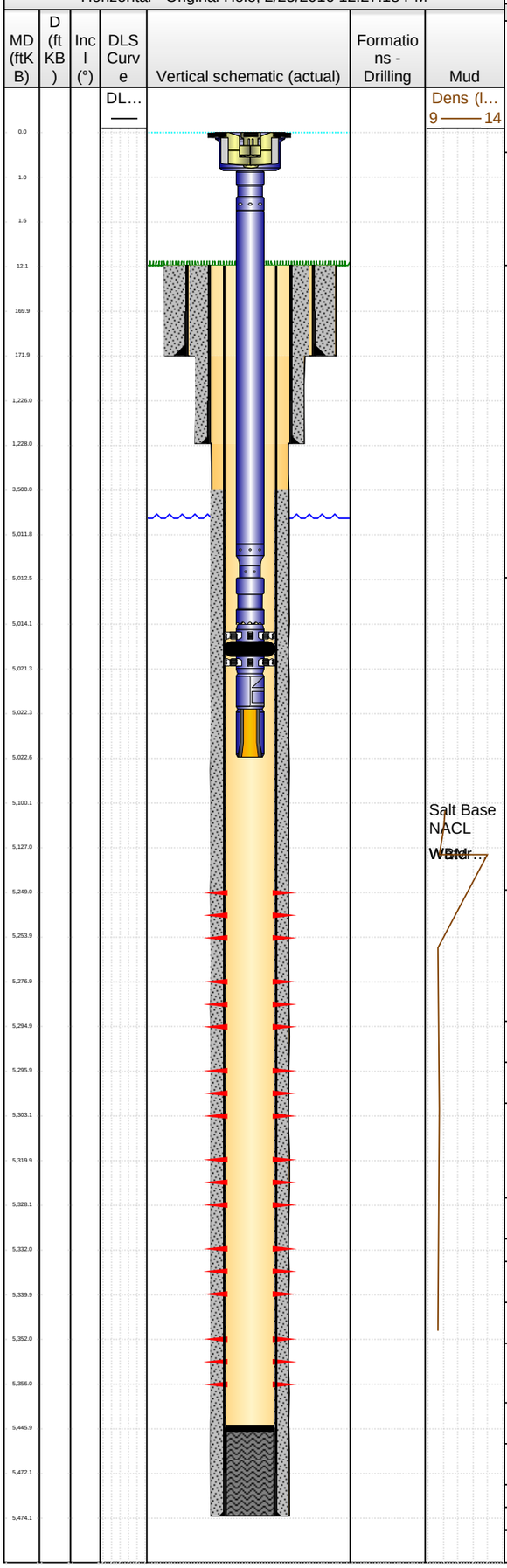
Horizontal - Original Hole, 2/25/2016 12:27:18 PM



Daily Operations

Start Date	End Date	Summary
5/26/2007	5/27/2007	Worked on rebuilding the location,moved the frac tank off to the side of location, pulled some more concrete out from around the well head and moved it off to the side of the location, moved more dirt on location to level it out, dug out a 80' x 45' x 8' reserve pit, put fence up around the reserve pit when it was done. shut down.
5/29/2007	5/30/2007	Rig down from MCU O-23. Move rig to location, spot in equipment, spot in rig. Finished blading location, set anchors on location, pad and lined the reserve pit, broke up concrete with the trackhoe, loaded it up on to a dump truck and they hauled it to the landfarm.
5/30/2007	5/31/2007	Rig up pulling unit. Rig up Tefteller, run gauge ring, run in with 1.81 packer plug, set after 2 run's. Nipple down well head tree. Have brine water delivered. Bolt's were rusted on, got broke loose. Nipple up BOP's. Packer came loose while nippling up BOP's. Spot in empty tubing float. Try to puncture and retrive 1.81 plug, could not retrive plug, it's got 10ft. of fill on top. Run impresion block (sand). Calculated 16.3# mud, delivered. Hook up manifold, start pumping mud down hole. Bullhead down casing 100bbl's, release on/off tool pump up tubing. Kill well. Pull out tubing wrap around. Latch up on/off tool try to release packer slip's. Shut in. Jacobs rsbt crew worked on braking up the concrete that was pulled from around the well head, then loaded it up onto a dump truck, they haued it to the landfarm.
5/31/2007	6/1/2007	Start working on packer to get released. Will not release, pushed packer down 31ft. setting @ 5177ft. release on/off tool, trip out of hole laying down 2 7/8 cement lined tubing, keeping hole loaded with 16.2# mud. Rig up Black Warrior Wireline truck, with stack, run gauge ring for 5 1/2 casing, good. Run logging tool's, GammaRay, CCL. Pick up Baker 5 1/2 packer on wireline, set packer top @ 5141ft. Pick up Scientific Survey tool's, survey 5 1/2 casing going in hole, oreintate Baker packer tip face @ 97 degree's , pick up Weatherford wireline set RBP run in Set @ 5000ft. Test @ 500psi. held good. Nipple down BOP's, make up wellhead with tubing flange and valve. Shut in. Rig down, move off. RSBT crew hauled out concrete mix, gathered up some material to install a cellar.
6/1/2007	6/2/2007	RSBT crews hauled materials and equipments on to location to installed a cellar, dug a hole around the wellhead and set the culvert for a cellar, mixed concrete and poured it inside the culvert for a cellar base, then moved all the equipment and lights off of location for the drilling rig. Move rig, weld on well head
6/2/2007	6/3/2007	Weld on well head, not straight, N/D well head and reweld head straight, N/U BOP
6/3/2007	6/4/2007	Test BOP, retreive RBP, TIH, circ. Retreive Bottom RBP, circ. POH
6/4/2007	6/5/2007	Retreive RBP L/D same, M/U whipstock & mills, TIH mill window & 3' open hole L/D mills, P/U dir tools TIH P/U wire line & gyro tool, Put the fence up around the loc., patched a hole in the reserve pit liner.
6/5/2007	6/6/2007	Take seats W/ Gyro trouble shot Gyro, Slide, work stuck pipe
6/6/2007	6/7/2007	Work pipe free, Con mud, Drlg ahead
6/7/2007	6/8/2007	Drlg from 5209' to 5304' TOOH for MWD tools, CK MWD tools
6/8/2007	6/9/2007	Work on mwd failure and tih, tooh work on mwd tools
6/9/2007	6/10/2007	Rig service, TIH and ck mwd tool every 10 stands, Drlg f/ 5302' t/ 5350' TOOH, Reset motor to 1.37 deg, Change out drilling line
6/10/2007	6/11/2007	Change out drilling line, Change out mwd tools, tih, drlg, work on mwd tools.
6/11/2007	6/12/2007	Rig service, Work on MWD tools, drlg, Replace oil seals in power swivel, Drlg
6/12/2007	6/13/2007	Rig service and drill
6/13/2007	6/14/2007	Rig service Drlg, Circ

Operations QUICK Report

Resolute

Well Name: MCU E-19

Well Information

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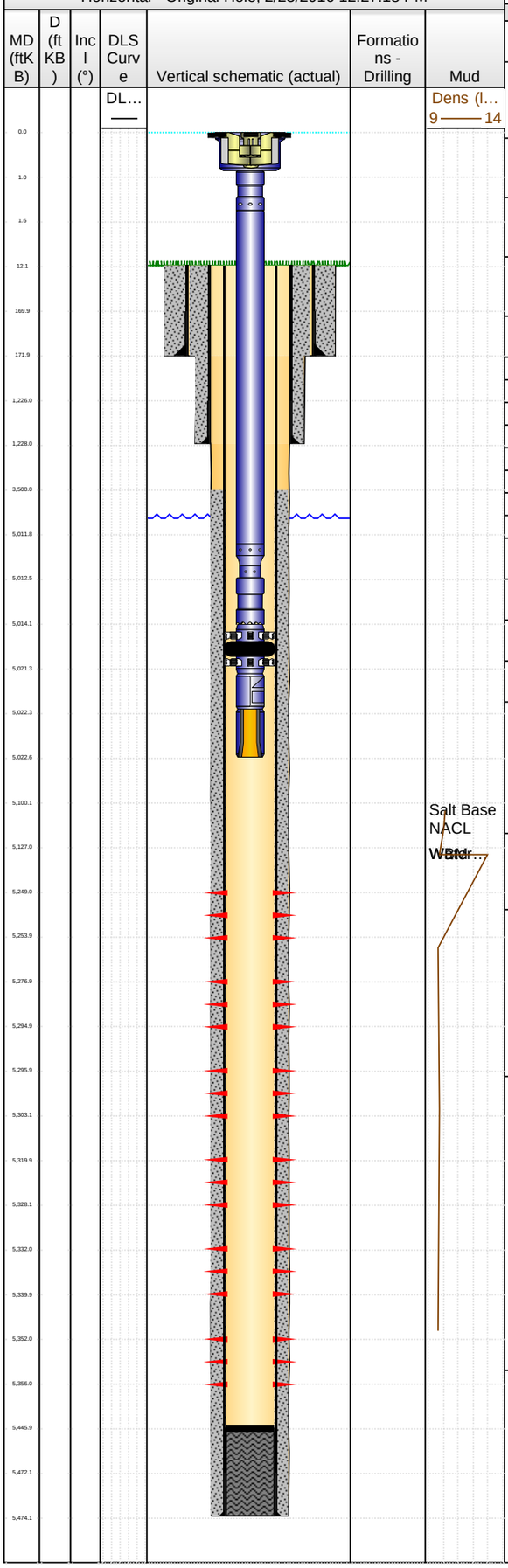

Daily Operations

Start Date	End Date	Summary
6/14/2007	6/15/2007	Circ and cond mud, TOOH lay down tools, TIH latch on to whip, Mix mud and top kill well
6/15/2007	6/16/2007	Top kill well. Wait on bar and 16.2# mud, Mix mud to 16.5# 270 bbls, Pump 80 bbls down drill pipe well still flowing, Top kill well with 80 bbls 16.5# mud TOOH 18 stands, cond mud, trying to kill
6/16/2007	6/17/2007	Mix mud, Unplug pump suction and pump plug up with bar, Kill well by dead heading 19 # mud down to top of window @ 5126' TOOH
6/17/2007	6/18/2007	Run in and wire line set plug @ 5134' run RBP Tag @ 5033' Stage in hole and Circ Heavy mud out, Run RBP tag @ 5049' W/O RBP,RIH
6/18/2007	6/19/2007	Run in hole w/ bridge plug set plug @ 5108', TOOH, circ gas out of well bore, TIH and set whip, Mill window f/5097' to 5103', circ, TOOH
6/19/2007	6/20/2007	POOH and lay down mills, pick up dir tools, TIH, RIH w/ gyro tools, Drlg
6/20/2007	6/21/2007	Work on EM tool, change out EM tool drill curve
6/21/2007	6/22/2007	Drill curve, circ. POOH to change bend & bit.
6/22/2007	6/23/2007	Land curve & drill lateral
6/23/2007	6/24/2007	Drill curve lateral #3
6/24/2007	6/25/2007	Drill curve lateral #3
6/25/2007	6/26/2007	Change bit & motor drill lateral
6/26/2007	6/27/2007	Drill lateral
6/27/2007	6/28/2007	Drill lateral to T.D. circ. L/D drill pipe
6/28/2007	6/29/2007	Set Weatherford RBP @ 4,960'. RR @ 19:30 on 6/28/2007.
7/3/2007	7/4/2007	Pumped fluid out of the reserve pit and hauled it to disposal.
7/5/2007	7/6/2007	Water trucks pulled fluid out of the reserve pit and hauled it to disposal.
7/8/2007	7/9/2007	Pumped fluid out of the reserve pit and hauled it to disposal.
7/9/2007	7/10/2007	Filled out jsa, did pre-trip inspection on equipments to be used, road backhoe to the loc., fixed the fence around the reserve pit, worked on cleaning up loc., loaded up the old well head and hauled it to the Aneth Unit yard. Water trucks loaded fluid out of the reserve pit and hauled it to disposal.
7/17/2007	7/18/2007	removed 3 50 KVA's Transformer from section 11 and install at E19, hook up primary connection on transformer, refused with 10 amps, reconnected primary jumpers
7/23/2007	7/23/2007	Key had monthly safety meeting and showed up @ 8:30. Do JSA, Tailgate meeting. Road rig to loc. spot rig & pit, rig up. NDWH, NUBOP, RU floor & tongs. Wait on tbg to be delivered. Tbg showed up spot trailer, Pick up retreiving head, start picking up tbg. Picked up 154 jts tag RBP @ 4960' open bypass and it had 450 psi. Bleed down to 0 still flowing on the csg. Jay off of packer leave it set for the night SWI
7/24/2007	7/24/2007	Fill out JSA, Tailgate meeting. Tbg. 90, Csg 90 bleed off. Open bypass on RBP 200 psi, Bleed down release RBP. Pump 75 Bbls. of 10 # brine down the tbg well dead. TOOH w/RBP, lay down tools. Pick up Hook 5.96, XO 1.81, Jars 9.27, 6- 3 1/2 drill collars 183.59, XO 1.63 TIH w/152 jts. Latch on to whipstock jar for 1/2 hr. and brakes were to hot, shut down let brakes cool off. Cont. jarring & whipstock came loose. TOOH w/152 jts, Drill collars & whipstock. Lay down whipstock. TIH drill collars and come out & lay them down. Pick up Baker's retreiving head TIH 6 jts & tbg started flowing, pump 2 Bbls. down tbg try kill tbg and bring it up the csg - no luck. FLowback well attempt to bull head down csg pumpws 26 Bbls. of 10 # @ 1750 PSI still had 800 psi. SWI

Operations QUICK Report

Well Name: MCU E-19

Well Information

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Asset Group	County	State/Province	Qtr/Qtr	North/South Distance (ft)	North/South Reference	East/West Distance (ft)	East/West Reference
Greater Aneth	San Juan	Utah	C NE SE	1,980.0	FSL	660.0	FEL

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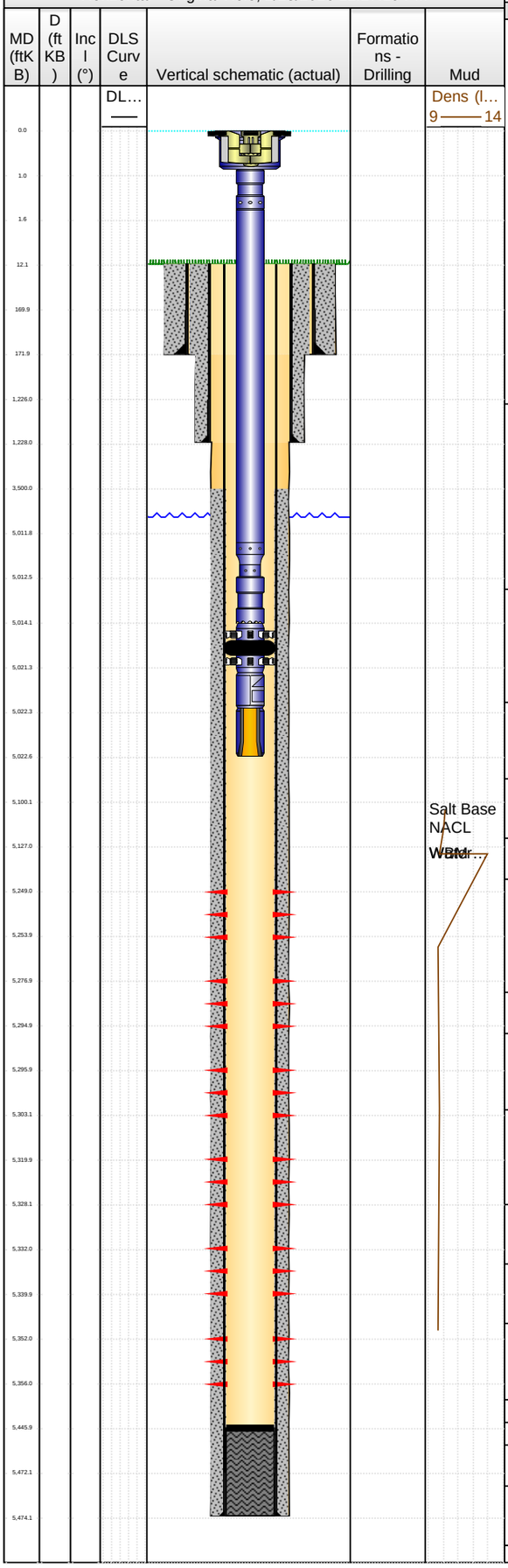

Daily Operations

Start Date	End Date	Summary
7/25/2007	7/27/2007	Fill out JSA, Tailgate meeting. Tbg 750 psi, Csg 750 psi. Flow back well for 1 hour and it finally died enough to run tbg in the hole. Tag RBP @ 5115' open bypass and equalized we had 700 psi, jay off of packer circulate 145 Bbls. 16.4 mud well dead. Latch on to RBP and release. TOOH w/tbg and lay down RBP. Pick up Centinal 4.10, Motor 17.02, Seal Section 5.60, Gas Seperator 2.65, Pump 14.79, XO 2 7/8 X 2 3/8 .50, Sub 4.00, Check .50, 1 jt 30..18, Sliding Sleeve 3.10, 154 jts. 4980.14, Tbg Hanger 1.00 and service. WAIT ON CABLE, truck towing trailer had the fifth wheel plate come out of the back of the truck. Plug in cable hang sheave run pump & tbg. Make splice land tbg. NDBOP, NUWH SWI. Bottom of Centinal @ 5063.58, Top of Motor 5042.46, Top of Seal Section 5036.86, Top of Gas Seperator @ 5034.21, Top of Pump @ 5019.42, Top of Check valve @ 5014.42, Top Sliding Sleeve @ 4981.14, Total 155 jts of new J-55 tbg.
7/26/2007	7/27/2007	Fill out JSA, tailgate meeting, no pressure on the well, pump 150 bbls of fresh water down csg and broke circulation. Flowed back, saved 110 bbls of mud, sent back to plant. The rest of the mud was gas cut, sent it to the pit. 3:30 rig down pump & pit. Rig down rig, get ready to move. FLow crew will be here @ 5:00 to take over and flow all night. Key Energy is lined up to start skimming oil off of the pit and will take it to Sattelite 20. Haul waste water to Farmington.
7/27/2007	7/28/2007	Fil out JSA, Tailgate meeting. The well was not flowing when I got there. Ordered a load of fresh water to pump down the csg and kick back off. Well flowing moved off. Put flow back crew on it for the weekend. Water trucks pumped water out of the reserve pit and hauled it to the disposal.
7/28/2007	7/29/2007	Fill out jsa, Flowed back well switching lines back and forth between the casing and the tubing, flow well over night. Vac trucks pumped water out of the reserve pit and hauled it to disposal.
7/29/2007	7/30/2007	Filled out jsa, checked psi on well, flowed well, switching lines between the casing and the tubing, flowed it over night.
7/30/2007	7/31/2007	Filled out jsa, flow well back, Vac trucks pumped water out of the reserve pit and haul it to disposal.
7/31/2007	8/1/2007	filled out jsa, there was a crew on location flowing well, then there was another crew that worked on plumbing in well head, tied in the flow line, sent the well down line. Bladed the lease roads to location to have the water trucks haul fluid out of the pit and take it to disposal.
8/1/2007	8/2/2007	Waited for a pump to serculate the water with some chemical to clean the fluid up.
8/2/2007	8/3/2007	Filled out jsa, roustabout crew work on cleaning up the location, bladed the location and the road because it was to sandy for the trucks to go in and out.
8/3/2007	8/7/2007	Crew on loc. filled out jsa, installed some booms across the pit, helped the water truck driver skim the oil off the top of the reserve pit, hauled the oil to sat.20, pumped the water out and put it in the reserve pit at RU 10-12.
8/6/2007	8/7/2007	skim the oil off the top of the reserve pit and hauled it to sat 20., pumped the water out and hauled it to reserve pit on RU 10-12.
8/6/2007	8/6/2007	JSA, tbg 1000#, MI RU slickline, RIH w/ 2.31 B shifting tool shut off sleeve at 4980', POOH LD tool, RD MO Slickline.
8/7/2007	8/8/2007	Roustabout crew on loc., filled out jsa, had 2 loads of fly ash hauled to location for clean up, the roustabout crew worked on mixing fly ash in the pit.
8/8/2007	8/9/2007	Continue mixing flyash
8/9/2007	8/10/2007	Continue mixing flyash
8/10/2007	8/11/2007	Continue working on mixing the mud in the pit for clean up.
8/11/2007	8/12/2007	clean up job area after completion, PU two utitlity poles & electrical box, 1" riser, use of backhoe to remove pole,

Operations QUICK Report

Resolute

Well Name: MCU E-19

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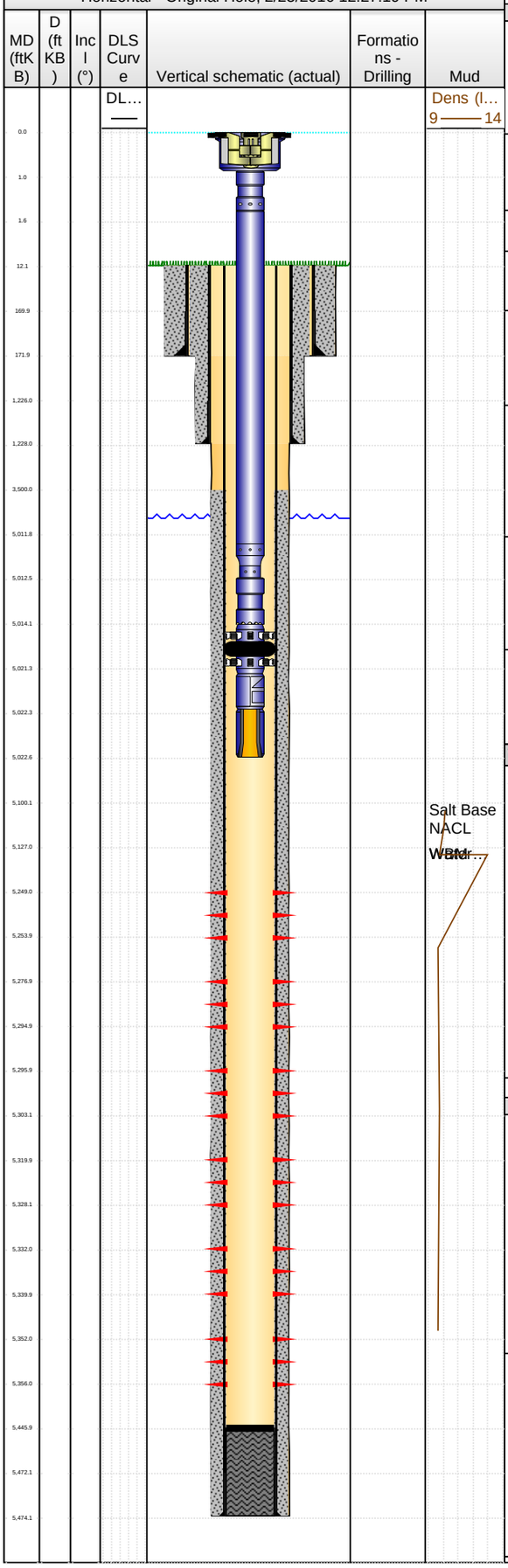

Daily Operations

Start Date	End Date	Summary
8/13/2007	8/14/2007	Roustabout crew on loc., filled out there jsa, did pre-trip inspection on equipments, took the fence down around the pit, dug a hole to gather up the water, had a water truck pump the water out of the reserve pit, worked on mixing up the mud in the pit to dry it up.
8/14/2007	8/15/2007	Roustabout crew on loc., filled out there jsa, did pre trip inspection on there heavy equipments to be used, started working on mixing the mud with fly ash.
8/15/2007	8/16/2007	Roustabout crew continued working on mixing fly ash into the pit.
8/16/2007	8/17/2007	Roustabout crew continued working on mixing and moving the mud around in the pit, then let it set for a couple days and let it dry up.
8/23/2007	8/24/2007	Crew on loc. filled out there jsa, did equipment inspection, took the fence down around the pit, started pulling the stained dirt out of the reserve pit, stock piled it up on location, got it ready for hual off, put the fence back up around the pit.
8/24/2007	8/25/2007	Crew on location filled out there jsa, inspect equipments,took the fence down around the pit, cleaned out the remaining stained dirt in the pit, loaded up stained dirt onto bellydump trucks, they hauled it to the landfarm, backfilled 55% of the reserve pit, put the fence back up around the small pit, shut down for the day.
8/27/2007	8/28/2007	Crew on loc. filled out there jsa, inspect equipments, took the fence down around the pit, finished back filling the reserve pit, loaded up the stain dirt onto bellydump truck and they hauled it to the landfarm, continued cleaning up around the pit area.
8/28/2007	8/29/2007	Crew on loc. filled out jsa, inspect equipments, loaded up the rest of the stained dirt on to bellydump trucks, they hauled it to the landfarm, bladed out the location with the grader,moved the equipments off location.

Workover, 9/2/2008

Primary Job Type	Start Date	End Date	Objective
Workover	9/2/2008	9/8/2008	The following work will be performed when the rig moves onto location: 1) Move in and rig up. 2) TOOH and LD tubing and sub pump. 3) CO to PBTD. 4) TIH with packer. 5) TIH with new tubing. 6) Complete mock MIT. 7) Rig down and move off. .

Daily Operations

Start Date	End Date	Summary
9/2/2008	9/2/2008	Road rig to loc and spotted, filled out JSA and waited on junk basket. Got junk basket to loc and rig up and put all safety equipment. RU hardlines and check psi on well, tbg psi 60#, csg psi 80#, open up well to rig pit and bled well. Crew took lunch and after lunch well was still dead. NDWH, NUBOP, RU work floor/ tongs. Had to wait on Tefteller to arrive on loc, finally showed up @ 2 pm and opened sliding sleeve. RD Tefteller, pulled up and removed tbg hanger. Cut cable and PU PKR, set PKR 30' from surface. Tested pipe rams and hydril to 500# - held good. LD PKR and shut well in for the day.
9/3/2008	9/3/2008	Filled out jsa, check psi on well, tbg psi- 60# , csg psi- 0 , bled well down to rig pit. Pumped 10 bbls of P/W down tbg ,and 30 bbls down csg. RU spooler and Pull a jt and csg started flowing, ordered 80 bbls of P/W, waited on fluid for 1 hr, hook up to pump and circulated hole w/ 150 bbls of P/W, well dead and POOH w/ 154 jts. Disassemble ESP equipments and LD. PU bit/ scraper and TIH w/ 154 jts out of derrick.and PU 5 jts and got to top of window @ 5126' , LD tag jts and SWI.

Operations QUICK Report

Resolute

Well Name: MCU E-19

Well Information

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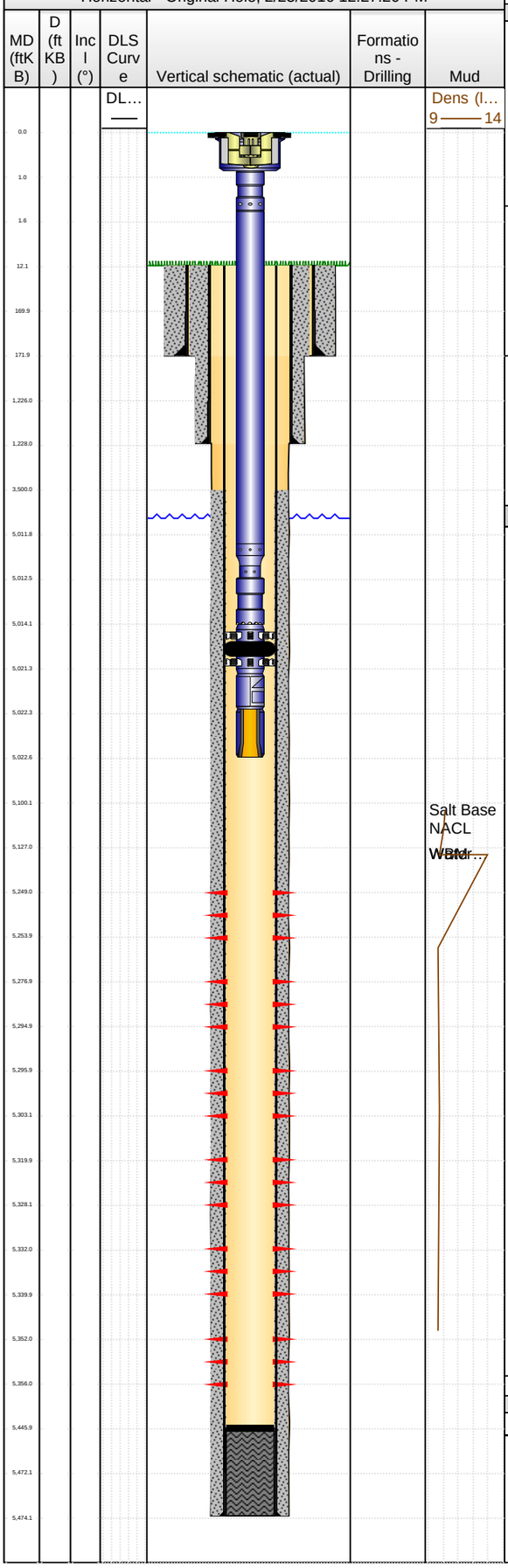

Daily Operations

Start Date	End Date	Summary
9/4/2008	9/4/2008	Jsa. Tbg psi-0, csg psi-80#, bled well down to rig pit. Circulated hole w/ 80 bbls of P/W, and TOOH w/ bit/scraper. LD scraper, and MU arrowset 1 PKR, w/ 4' perf sub,, and TIH w/ 154 jts, and PU 1 jt to set PKR @ 5070' , 50' above top window, waited on PKR fluid for 1/2 hr, Hook up PKR fluid to pump and circulated hole w/ 110 bbls of PKR fluid, did MIT test to 1030lbs, held psi good for 1/2 hr, released psi and Jayed off PKR. LD 100 jts of 2 7/8" production tbg. SWI
9/5/2008	9/5/2008	JSA, tbg 0#, csg 0#, POOH LD 55 jts WS, Swap out trailer, too sandy on location, PU on-off tool, w/ 161 jts TK fiberline tbg, latch on to packer , space out w/ 8'-2' pup jts , 1 jt pin x pin w/ tbg hanger, tried to latch back on, came up short, had to respace LD 2' sub, PU 4' sub, (didn't land tbg due to cut seal on tbg hanger while trying to latch on, no spare seals, send back to WSI), SI SD
9/8/2008	9/8/2008	JSA. Tbg psi-0, csg psi-0, open up well to rig pit. Waited on tbg hanger from town, finally arrived w/ hanger at 9am, install hanger and landed tbg, MIT test csg to 1100#, held good, no bled off and released psi and psi test tbg to 1000#, held good for 10 mins, released psi and RD floor, NDBOP, WH tree. RD pump and pit. and rig down unit, MOL.

W/O Injection Well, 2/1/2010

Primary Job Type	Start Date	End Date	Objective	Summary
W/O Injection Well	2/1/2010	9/14/2010	Procedure: 1) Prior to MI WSU, pump 10# brine to est. KWF. MIRU WSU , LOTO. 2) Pump KWF down tbg , Kill well. 3) NDWH, NU BOP. Test BOP against tbg hanger (send X-mas tree for repairs). 4) J-off packer, circ KWF, J-on, Release packer. 5) POOH LD 2 7/8" TK fiberlined tbg and packer (install 2 7/8" thread protector). 6) PU RIH w/ bit and scraper, CO to top of window at 5097'. 7) POOH LD bit and scraper, PU RIH w/ redressed Arrowset 1x packer w/ plug in place, set packer at ~ 5069'. 8) J-off packer, circ packer fluid, MOCK MIT to 1000#. POOH LD workstring. 9) PU new 2 7/8" TK fiberline tbg, space out tbg, MOCK MIT after landing tbg. 10) ND BOP. NU WH. MIRU Slickline Unit, Test lubricator to 2500#. 11) RIH gauge ring, shear plug, and release plug. RDMO Slickline. 12) Flow back till fluid clears up. RDMO WSU. 13) Schedule MIT w/ NEPA. Notify Operations that the well is ready to be returned back to production. .	operations staff at the Ratherford / McElmo Unit recommends moving a workover rig onto MCU E-19 (Horizontal Injector Section 11) to repair backside pressure. Well was discovered with 2450# on casing, equalize with tubing pressure, indicting that packer or tubing leak. Job Scope includes: cleaning out to top of window lateral 2 at 5103', installing new / redressed packer, 2 7/8" TK fiberlined tubing production tubing. This well was last worked on in September 8, 2008, converted back to injector, laid down ESP equipment. This workover is expected to restore production to 15 BOPD and 750 BWPD. months. For additional information, contact Vernon Winter at 435-651-3265. .

Daily Operations

Start Date	End Date	Summary
1/26/2010	1/26/2010	Drive to location and test anchors

Operations QUICK Report

Well Name: MCU E-19

Well Information

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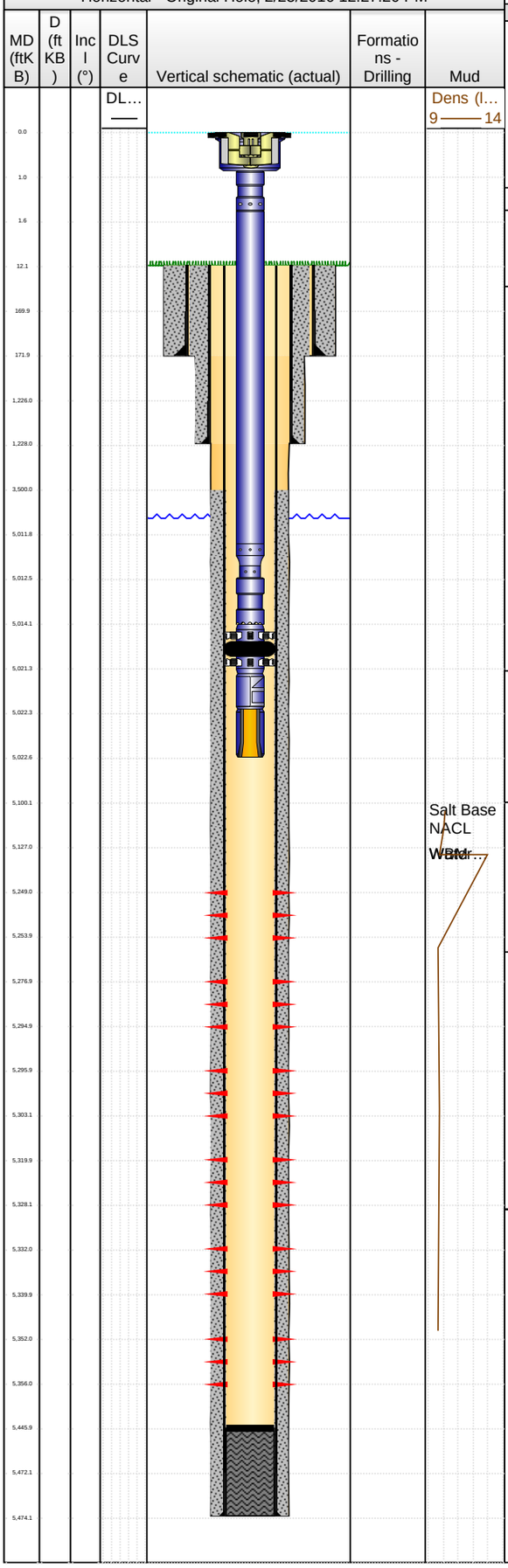

Daily Operations

Start Date	End Date	Summary
2/1/2010	2/1/2010	1. Location is dry & sandy. 2. Anchors good & tested on 1/10. 3. No cathodic hooked up to the well head. Road rig to location, filled out another JSA. Spot in junk basket, set rig pad. While backing rig up to the well it got stuck in the sand, had to pull it out with winch truck, then there was a change in plans. Put tools up for rig move, MOL.
5/27/2010	5/27/2010	Drive to location and test all the anchors,
7/23/2010	7/23/2010	RU Tefteller, tbg & csg 1800 psi. Pressure test lubricator. RIH w/1.906 gauge ring. POOH PU 1.81 blanking plug. RIH set plug @ 5061'. POOH RD Tefteller and release.
7/26/2010	7/26/2010	Fill out JSA, tailgate safety meeting. Tbg & csg 1800 psi. Check valves on well and choke manifold. Open well up, leak on union. Shut valve on well, bleed pressure off, tighten union. Open valve on well. Open choke valve, bleed casing down to frac tank. Pressure went to 900 psi in about 20 minutes. Tbg pressure stayed at 1800 psi; 1 hour later, pressure at 400 psi on casing and 1900 psi on tbg. Pressure stayed at 400 psi on casing, 1950 psi on tbg. Shut casing in. Hook up tbg, bleed tbg to frac tank. Pressure went to 0 in 20 minutes. Casing pressure went to 650 psi. Waited 20 minutes casing pressure was at 760. Hook casing back up. Started bleeding casing down. Casing went to 420 psi in 40 minutes. Stayed at 420 for 10 minutes, waited another 10 minutes, pressure went back to 520. Shut casing in. Packer leaking. Called Lynn and Vern, informed them. Secure well, unhooked choke manifold. Called for vac truck to empty frac tank. Have about 80 bbls in frac tank. Clean location.
7/28/2010	7/28/2010	Check presures, 700psi on tubing, 1600psi on casing. Rig up Tefteller. Wait on MWS Hot oil truck until 2:00pm. Presure up tubing to 2000psi, Tefteller punctured and pull plug. Pump 35bbl's 10# brine down tubing. Shut well in, 1150psi on tubing, watch presure, 750psi on tubing, 1400psi on casing. Shut well in.
8/2/2010	8/2/2010	Road rig to location. Fill out JSA, Tailgate safety meeting. Tbg 1500 psi, Csg 1400 psi. Have blade fix ruts on location. Spot in rig, RUWSU, spot in rig equipment. Hook up lines to pump and rig tank. Lunch break. Test lines on pump, fix leaks. Pump 10 bbls 16.5 KWF down tbg. Received call from Wilson. Shut rig down until further notice. Secure well. SWI.
8/3/2010	8/3/2010	Fill out JSA, Tailgate safety meeting. Tbg 1000 psi, csg 1400 psi. Wait for KWF. Hook vac truck to pump. Pump 30 bbls 16.3 KWF down tbg. Tbg 0 psi, csg 2000 psi. Start bleeding csg to rig tank. Shut in at 1000 psi. Wait for frac tank. Spot in frac tank. Had to go get 4" connection for frac tank. Csg pressure going up. Pump 10 bbls 16.3 KEF down tbg. Hook up frac tank to choke manifold. Csg 1250 psi, start bleeding down csg to frac tank. Bleed down to 115 psi, pressure started going back up. At 160 psi, pump 5 more bbls 16.3 KWF down tbg. Csg went to 250 psi, bleed down to 0 psi. Waited 50 minutes - still dead. Secure well, SIFN.

Operations QUICK Report

Resolute

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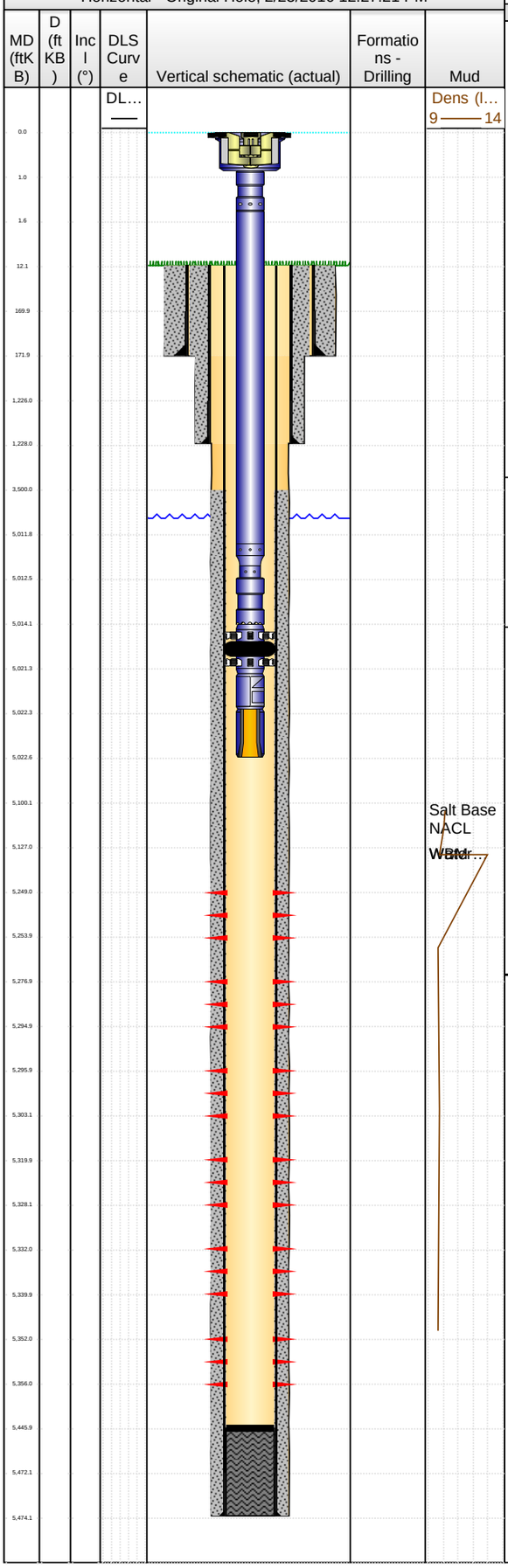

Daily Operations

Start Date	End Date	Summary
8/4/2010	8/4/2010	Fill out JSA. Tailgate Safety meeting. Tbg. 0 psi. Cas. 240 psi. Bleed cas down. Well dead. NDWH. NUBOP. RU floor, Test BOP. 200 low. 900 high. Good test. Test hydrill 200 low, 900 high. good test.J -off packer. Pump 15 bbls 16.4 lb. mud down tbg. Well came around. Took flow to frack tank. Cas pressure 300 psi. Pump total 115 bbls 16.4 lb. mud. Let cas pressure bleed down. Let gas break out. Lunch break. Well dead. Took mud cut. Mud weight 16 lbs. J back on packer, released packer.TOOH LD 1 jt. SB 2 stands. The.last stand pin threads were galled. Coupling on next joint galled.The coupling was not AP modified. No ring in coupling. LD 1 jt. galled threads and pin. Coupling not AP modified. Threads on coupling galled.Called Lynn it was decide to SB tbg. LD Packer , Then TIH tbg open ended for kill string. LD tbg next day. TOOH SB 8 stands , 9 th stand had rings and was AP modified. TOOH SB 70 Stands 2 7/8" TK fiberlined tbg. Pump 2 bbls 16.4 mud every 20 stands.LD ! jt. LD arrowset 1X packer. The rubbers were gone on the element. Both upper and lower slips had rubber in them. Pump 5 bbls 16.4 mud. TIH open ended 79 stands 2 7/8" TH fiberlined tbg. Secure Well. SIFN
8/5/2010	8/5/2010	Fill out JSA, tailgate safety meeting. Tbg and cas 0 psi. Wait for LD trailer. Spot in LD trailer. TOOH, LD 108 jts. 2 7/8" TK fiberlined tbg. Tbg tongs gear broke. Down for 2 hours while crew fixed tongs. Fill cas & tbg with 16.4# mud. Pump 8 bbls 16.4 mud. Secure well. Shut down for Safety stand down. Came back from safety stand down . Check well out. SIFN.
8/6/2010	8/6/2010	Fill lout JSA, Tailgate safety meeting. Tbg & Cas 0 psi. TOOH, LD 49 jts. 2 7/8" TK fiberlined tbg. Total jts lay down 161. Move out TK yellowband tbg, Move in 2 7/8" workstring. PU bit & scrapper, Tally & PU 2 7/8" tbg TIH 50 jts. Lunch break. TIH 108 jts 2 7/8" tbg. Clean out to 5097. TOOH , LD 3 jts. SB 155 jts. LD bit & scrapper. Bit and scraper were plug with rubber. Called Vern Winter informed him of the rubber. PU arrowset 1X packer w/ plug in place. TIH set packer at 5039'. Pressure cas. to 500 psi. Packer holding. J-off packer, Circulate packer fluid. Pump 128 bbls. Packer fluid clear. Did a mock MIT, pressure casing to 1000 psi. No lost in 30 minutes. POOH LD, 67 jts. 2 7/8" tbg. Secure well. SIFN. Total KWF pump. 180 bbls Total returned 150 bbls. Have 30 bbls below packer.

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	8/24/1960				

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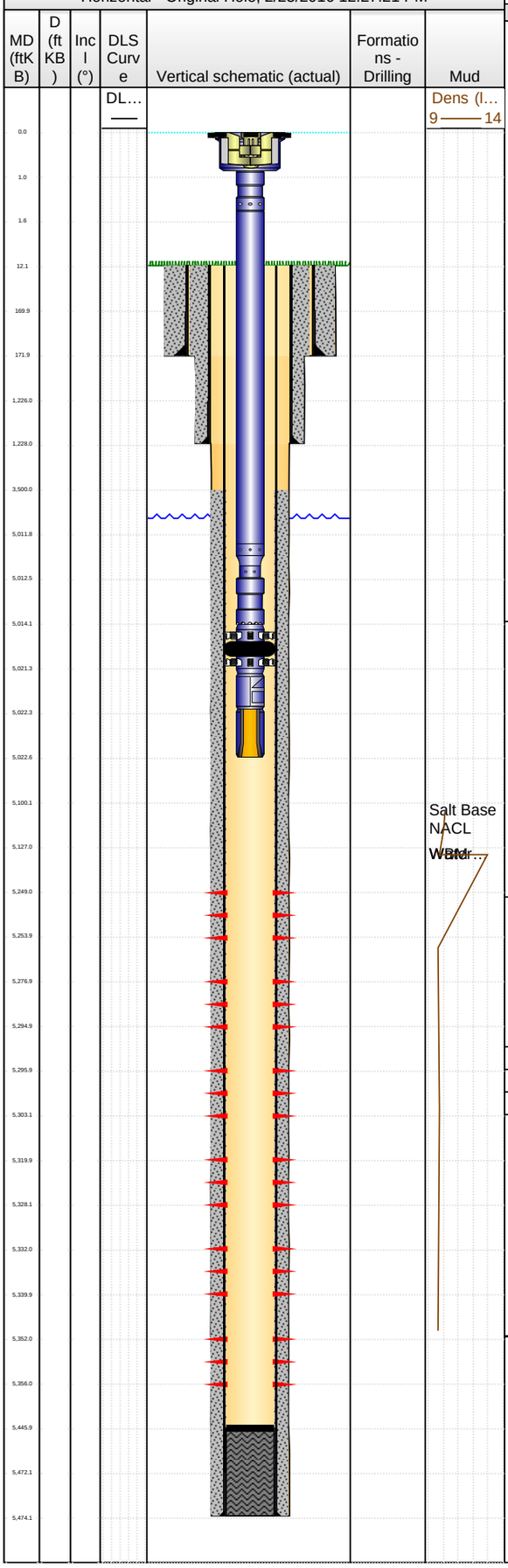

Daily Operations

Start Date	End Date	Summary
8/7/2010	8/7/2010	Fill out JSA, Tailgate Safety meeting. Tbg & csg 0 psi. TOOH, LD 98 jts 2 7/8" work string.LD on-off tool. Move out LD trailer. Spot in TK fiberlined tbg. PU new on-off tool. Tally & PU 2 7/8" TK fiberlined tbg. TIH 159 jts, J-on to packer. Space out tbg. J-off packer. TOOH LD 2 jts. PU 2', 4', & 6' subs. PU pin X pin 2 7/8" TK yellowband jt. PU Tbg flange. J-on to packer. Land tbg at 5039'. Test tbg. Pressure to 1000 psi.. good test. Did Mock MIt on cas. Pressure to 1000 psi. No lost of pressure in 30 minutes. Good test. RD floor, NDBOP, NUWH. Test seal on wellhead to 2000 psi. Good test. Spot in Tefteller. RU Tefteller. Pressure test to 2500# good test. Tefteller RIH, Put 2000 psi on tbg, Tefteller punch plug, lost 200 #. POH punch. PU JDC to pull plug, RIH pulled plug. Pressure at 0. POH. RD Tefteller. Secure well. SIFN. At 3:15 pm we had a incident.Samuel was climbing on to tbg trailer, his foot on the tire and the other on trailer bed, He slip and scratch is leg below the knee. He needed no first aid and said he was OK. He said he did not need to go to the Doctor. He was fine at 8: 30 pm when we left location. I called Lynn Begay at 3:30 pm and informed him. EOT 5039' Total tbg in hole. 155 jts. 2 7/8" TK fiberlined. 1 pin X pin jt. 3 subs, 2', 4' & 6'. Packer consist of, T2 On- Off tool 1.73', 5 1/2" X 2 3/8" Arrowset 1X packer 7.25' , 2 3/8" X 1 7/8" nogo 1.02' & 2 3/8" wireline re-entry guide 0.41'
8/9/2010	8/9/2010	Fill out JSA. Tailgate safety meeting. Tbg 700 psi. Cas 0. Start flowing on tbg pressure went to 0. small flow coming out of tbg. Pump 5 bbls down tbg. pressure went to 2000 psi. let bleed off to 1200 pump 3 bbl pressure went to 2000 psi. Try flowing again well went to 0 psi and small flow coming out of tbg. RDWSU. Let well shut in pressure went to 1000 psi, bleed tbg down pressure went to 0 and small flow. Pump 3 bbls down tbg, pressure went to 2500 , bleed off, pump 2 bbls pressure went to 2500 , bleed off. Let well shut in . NU injection skid to wellhead. Called Lynn and he said to leave well shut in and let pressure build. RD pump and tanks. MO location. Location still needs cleaned.
8/9/2010	8/9/2010	Inactive H2O Injector, Tbg 775#, Csg 0#, Braden Head 0#. Travel WSI's MIT testing equipment to location, JSA and safety meeting. HU to csg, pumped pressure to 1020#. Shut down and let chart record for 30 minutes, PASS MIT testing. Witnessed by NNEPA Rep. Leroy Nez. UH truck from csg. Move off location.
8/11/2010	8/11/2010	clean location
8/15/2010	8/15/2010	clean location
8/20/2010	8/10/2010	Pressure Tbg at 2000#
8/20/2010	8/20/2010	JSA, tailgate, LOTO (well still injection - SI swab valve). Pressure 2350# on tbg/70# on csg. SWI in swab valve (FL valve). RU Hot Oiler & test line to 2500# - Bleed 4 bbls back on tbg to 0 psi. Pump 8 bbls dwn tbg from 2500# to 2950#, kick out pump. Bleed 8 bbls back on tbg into Hot Oiler & plug up line few times, bleeding tbg back. Pump another 8 bbls PW dwn tbg from 2500# to 2950# (held solid). Bleed off 8 bbls pressure on tbg dwn to zero. RD Hot Oiler & RU WH equipt. Put well back on injection tbg, pressure up to 2300#, stop injecting.

Operations QUICK Report

Well Name: MCU E-19

Well Information

API Number	Enertia ID#	Field Name	Original KB Elevation (ft)	Ground Elevation (ft)	KB-Grd (ft)
4303716342	0480.01	McElmo Creek Unit	4,452.00	4,440.00	12.00

Asset Group	County	State/Province	Qtr/Qtr	North/South Distance (ft)	North/South Reference	East/West Distance (ft)	East/West Reference
Greater Aneth	San Juan	Utah	C NE SE	1,980.0	FSL	660.0	FEL

Latitude (°)	Longitude (°)	Section	Township	Block	Range
37° 14' 5.604" N	109° 14' 36.384" W	11	41S		24E

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	8/24/1960				

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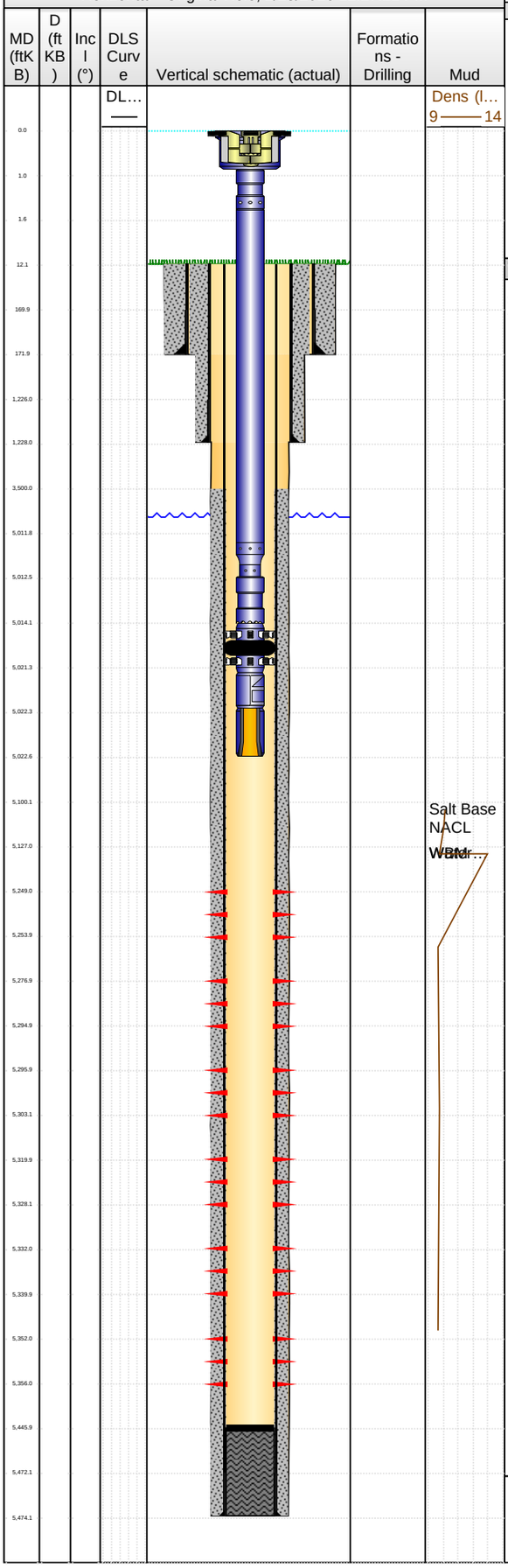

Daily Operations

Start Date	End Date	Summary
9/14/2010	9/14/2010	Filled out JSA, MIRU Tefteller. Tbg 2400#, csg 0#, test BOP & lubricator, ran a 1.75 impression block down to 5044' (EOT @ 5039'). Tagged up solid, POOH with block and didn't show anything on it. Changed out & ran in hole with 1.50 impression block down to 5136'. Tagged up something soft and worked it through, tag solid at 5145'. POOH with block, when tools were pulled it had some thick paraffin on it. Took sample to Ernie, Lynn B. & Vernon W. Decided to RD Tefteller, so RD & MOL. Also called and notified Lynn that the master valve on the injection line was leaking.

W/O Injection Well, 12/21/2010

Primary Job Type	Start Date	End Date	Objective	Summary
W/O Injection Well	12/21/2010	12/23/2010	The Job Scope includes MIRU Coiled Tubing Unit & associated pumping equipment, RIH perform initial wellbore clean out, perform chemical wash/squeeze to break down oily constituent sludge, flowback assisted by N2 if required, allow well to clean up. Perform acid wash/squeeze to remove iron oxides, barite and gypsum from wellbore and laterals, flowback assisted by N2 as required, allow well to clean up. Rig down Coiled Tubing Unit and associated equipment. Prior to being placed on injection, ensure that the injection supply lateral has been blown down and is clean. Return to injection status. .	Resolute Natural Resources, Operator of the McElmo Creek Unit, is requesting working interest owner approval for . : Coiled Tubing Unit and associated equipment will be moved onto MCU E-19 (Horizontal Dual Lateral Inj. Well, Sec. 11) to perform a chemical wash/squeeze, followed by acid wash/squeeze to remove plugging agents in the wellbore, preventing injection. The subject well was returned to inj for only a short period of time when the well was found not accepting fluid. A Wireline (Slickline) unit was MIRU to tag for fill or plugging in the tbg, the tbg was found clear. The WL unit did encounter outside the tbg in the cased hole in the area of the laterals kickoff points, a soft viscous dark brown, organic based solid/sludge. Samples were taken. The samples were found to be made up of 90% oil constituents (xylene soluble) which when heated behaved like paraffin. The remaining 10% is insoluble sand, silt, barite, gypsum, iron & oxides. Based on the results of the analysis & the inability of the wellbore to accept fluids, it is believed that the near bore laterals are plugged with this material. The WO is expected to result in 50 BOPD of additional prod from the offsetting prod oil wells by returning the inj well to injectivity at a rate of 500 bbls/D.

Operations QUICK Report

Resolute

Well Name: MCU E-19

Well Information

API Number	Enertia ID#	Field Name	Original KB Elevation (ft)	Ground Elevation (ft)	KB-Grd (ft)
4303716342	0480.01	McElmo Creek Unit	4,452.00	4,440.00	12.00

Asset Group	County	State/Province	Qtr/Qtr	North/South Distance (ft)	North/South Reference	East/West Distance (ft)	East/West Reference
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Permit Approval Date	Regulatory Spud Date	Total Depth Date	Rig Release Date/Time	First Production Date	Abandon Date/Time
	8/24/1960				

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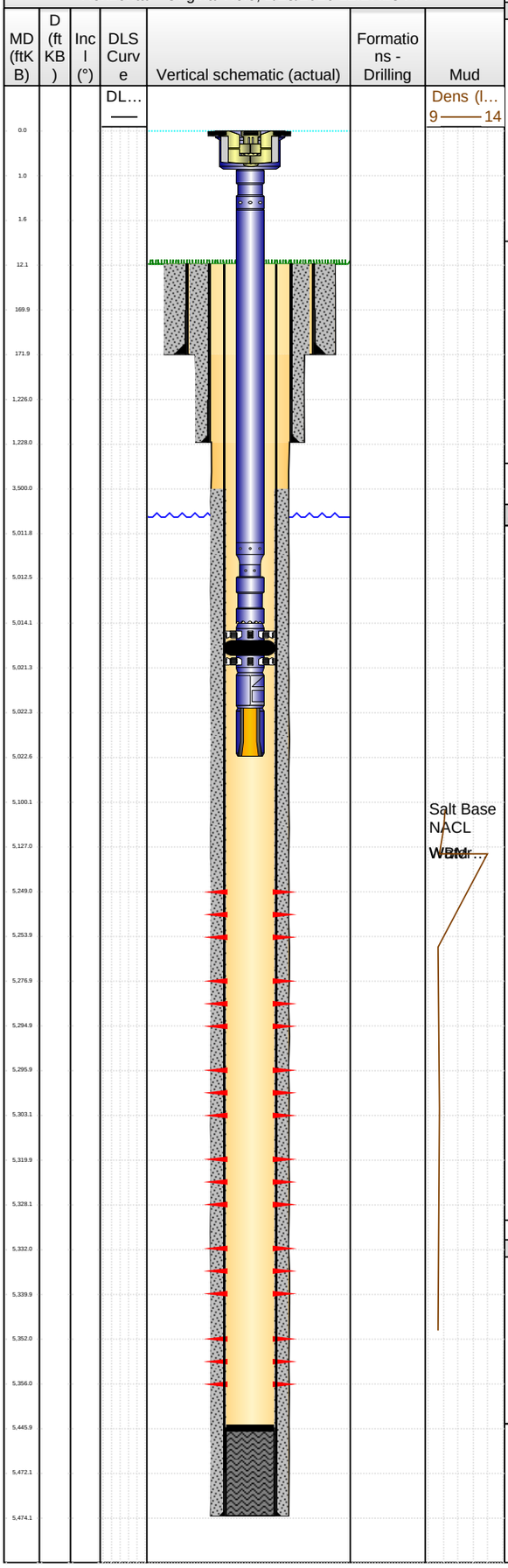

Daily Operations

Start Date	End Date	Summary
12/21/2010	12/21/2010	SITP 1500 psi. SICP 0 psi. Braden head 0 psi. 0 LEL. 0 H2S. JSA and safety meeting. MI RU CTU. Repair Maverick's pump. Test BOP to 4500 psi, OK. RIH w/ Vor Tech tool. Break circ w/ 1/10 bpm. Increase rate to 1 bpm at 5100', pressure 3500 psi. . Tag at 5141'(PBTD). Squeeze 8 bbl zylene @ 1 bpm and and 4900 psi. POH to 4500'. Let well set 2 hrs. RIH. Displace hole with N2. Dirty zylene then clear wtr in returns. Squeeze 8 bbl zylene @ 1 bpm and 4000 psi. Pump 12 bbl spacer. POH. SWI.Blow coil dry. RD BOP and lubricator. Travel to yard.
12/22/2010	12/22/2010	SITP 1300 psi. SICP 0 psi. Braden head 0 psi. H2S 0, LEL 0. Flow well back. Rec 8 bbl zylene and 20 bbl pw. RU CTU. RIH. Break circ @ 5000' w/ .8 bpm and 3600 psi. Tag PBTD in lower lateral @ 6789'. 9 ppg mud in returns. Circ while working Vor Tech tool in lateral. Circ 216 bbl wtr until no mud in returns. Stored mud in frac tank on K22x until can be hauled to Envirotech. Acidize with 2500 gal 28% inhibited acid. Rate .7 bpm and 3800 psi. Flush with 11 bbl wtr. Wait on mechanic and repair CTU. POH. SWI. Flush coils w/ soda ash then blow dry w/ N2. RD MO CTU.
12/23/2010	12/23/2010	SITP 1450 psi. SICP 0. Flow back well to flat tank. Recover 200 bbl wtr.

UIC Repair, 4/17/2012

Primary Job Type	Start Date	End Date	Objective	Summary
UIC Repair	4/17/2012	4/25/2012	Job scope includes POOH with existing 2-7/8 inch TK Fiberlined tubing and Arrowset 1-X packer. Lay down tubing and packer. PU and RIH with replacement TK Fiberlined tubing and Arrowset 1-X packer. Circulate packer fluid, land tubing, run a mock MIT. The workover is expected to result in 15 Bopd 450 Bwpd of additional production from the offset producing oil wells, by returning the injection well to an injective rate of 500 Bbl/day. Project economics are as follows: NPV (10) = $244M, IRR = 125% and a Payout = 10 months.	Resolute Natural Resources, Operator of the McElmo Creek Unit, is requesting working interest owner approval for move a workover rig onto MCU E-19 (dual horizontal injector, section 11) to perform a UIC repair.2000 psig of pressure developed on the backside in early March 2012. On 05 Mar 2012, a 1.81 plug was set and the injection tubing pressure tested to 2800 psig. The tubing passed the pressure test. It therefore likely the annular pressure is a result of a leak through the outer sealing elements in the injection packer.The last wellwork performed on the well was a coiled tubing cleanout (circulation with VorTech tool) and acidization (2500 gal 28% inhibited HCl) of the lower lateral in Dec 2010. The current TK Fiberline tubing string and packer were installed on 07 Aug 2010 to repair a leaking packer. For additional information contact Steven Sandoval at 970-529-0974.

Daily Operations

Start Date	End Date	Summary
3/5/2012	3/5/2012	Fill Out Jsa Safety Mtg With Tefteller And MWS Hot Oiler Spot In, Check Well Psi Both Tbg & Csg Had 2000 # Psi, RU Wire line Psi Lubricator Up To 2800 # Psi Tested Good Run In Hole With Gauge Ring TOOH LD And 1.81 Plug Set Blow Tbg Side Down To 0 # Psi, Psi tested Tbg To 2800 # Psi tested Good Hook To Csg Side Bleed Well Down To 1660 # Psi 25 BBLS Returns, Call W.Dee, Pull The Plug Back Out RD Wireline MO

Operations QUICK Report

Well Name: MCU E-19

Well Information

API Number	Enertia ID#	Field Name	Original KB Elevation (ft)	Ground Elevation (ft)	KB-Grd (ft)
4303716342	0480.01	McElmo Creek Unit	4,452.00	4,440.00	12.00

Asset Group	County	State/Province	Qtr/Qtr	North/South Distance (ft)	North/South Reference	East/West Distance (ft)	East/West Reference
Greater Aneth	San Juan	Utah	C NE SE	1,980.0	FSL	660.0	FEL

Latitude (°)	Longitude (°)	Section	Township	Block	Range
37° 14' 5.604" N	109° 14' 36.384" W	11	41S		24E

Permit Approval Date	Regulatory Spud Date	Total Depth Date	Rig Release Date/Time	First Production Date	Abandon Date/Time
	8/24/1960				

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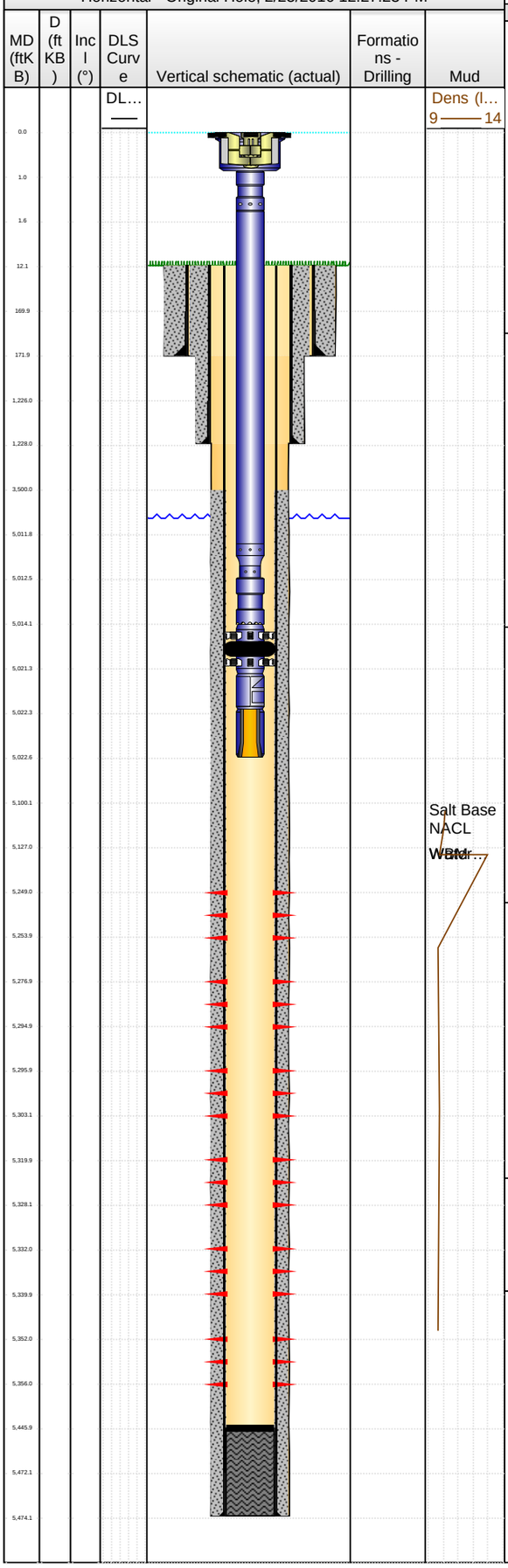

Daily Operations

Start Date	End Date	Summary
4/17/2012	4/17/2012	1) Dead man tested 4/12 mark/tag 2) 5K tree (2.9/16"x 5K valves) 3) cathodic on hook up at WH (LOTO jct bx) rectifier reading; 18 volts, 10 amps 4) insalutated bolt at main value on Co2 & water line (LOTO valves) Jsa tail gate mtg - pre-trip inspection, road rig to loc, spot in rig & junk basket - MIRU WSU - LOTO well, RD Flow line skid & move skid out, spot in rest of equipment - RU pump/lines, got excavation permit sign by REC personal (LJB) dug earth pit, MWS spot in empty tbg trailer - 1800# on tbg, 1700# on csg - pump 25bbls 10# dwn tbg, ISTP at 1600#, monitor tbg press for 30 mins press dwn to 1500# - calulate KWF of 16.3# (180bbls ordered) spot in 400 frac RU line to frac tank - secure well, SDFN
4/18/2012	4/18/2012	Jsa tail gate mtg - 1450# on tbg & 1600# on csg - spot in mud trks - bull head 25bbls 16.3# mud dwn tbg (vacuum) monitor tbg for 15 mins, tbg dead - ND tree, PU 10' sub w/TIW, NU BOPe (RU floor etc) press test rams/hydril to 300# & 1500# against donut, test good - started to back out set screws (1500# csg press started to push donut upward) decided to flow csg - flowed 138bbls (in 1/2hr - had trace of mud on tail end of flow) ISCP at 800#/tbg dead - pump 25bbls KWF dwn csg & broke circulation up tbg (circ 15bbls mud to earth pit) cont' circulating 105bbls (130bbls total) kick out pump, bleed tbg off, well dead & back off set screw, jay off pkr - Tooh LD landing jt, 6', 4', 2' subs & 39 jts (loading hole every 20jts) SWi, SDFN (left 116jts in hole for kill string)
4/19/2012	4/19/2012	Jsa tail gate mtg - tbg/csg = 0 psi, Bill A on location inspected & disguess condition on tbg, decided to LD TK - Tooh LD 118jnts & on-off tool (1jt had chip Fiber glass on bx end & btm 5jts had lite scale on outside of tbg - add tally up pkr element set at 5041'KB) MWS swap out tbg trailer (lunch break) MU on-off tool/perf sub TIH/PU 158jts tag/latch on to pkr 10' in at 5044'KB - release pkr (break) Pooh with 158jts LD pkr (2 elements miss off pkr, pkr looks good visually) MU bit/scraper TBIH w/40stds (80jts) SWi, SDFN Tbg Assembly; Landing jt, 6', 4', 2' subs 157jts, xo, on-off tool & Arrow Set pkr (WV showed landing jt, 6', 4', 2' subs, 155jts, xo, on-off tool & Arrow set pkr)
4/20/2012	4/20/2012	Jsa tail gate mtg - tbg/csg dead - TIH with 78jts (158) PU jt 159 ran bit/scraper to 5080'KB (top of window at 5097') LD jt 158/158, Pooh with 157jts & LD bit/scraper - MU AS1X pkr/perf sub TBIH with 157jts - set pkr at 5034'KB (element - recmd to set at 5035') circulate 120bbls pkr fluid - press test well bore/pkr to 1125# for 30 mins, test good - Jay off, Pooh LD 57jts (left 100jt K/S) SWi, SDFN (115jts TK should be ready & Caves should have some inspected over the week end, Hot Shot out Monday - MWS pull WS trailer in for the week end) 1.81F at 5029'KB center element at 5034'KB 1.78R at 5036'KB WRG at 5038'KB
4/23/2012	4/23/2012	jsa tail gate mtg - Tbg/Csg dead - Pooh LD 100 jts WS & on-off tool - wait on MWS (1hr - swap out tbg trailer WS/TK) cln out collars on first row, MU T-2 on -off tool, TIH/PU 90jts (cleaning out box end on every row) SWI, SDFN (Dash haul out 124jts inspected TK, same jts was lay dwn on)

Operations QUICK Report

Resolute

Well Name: MCU E-19

Well Information

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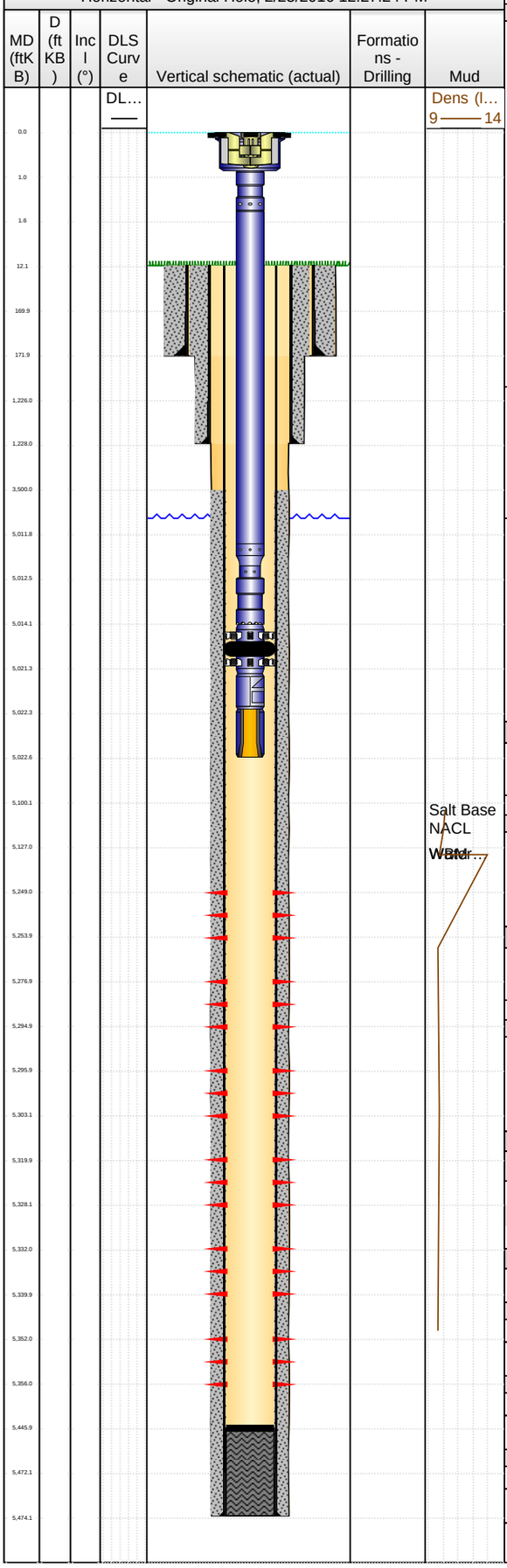

Daily Operations

Start Date	End Date	Summary
4/24/2012	4/24/2012	Jsa tail gate mtg - tbg/csg dead - TIH/PU 29jts (119jts) MWS/Dash swap out tbg trailer (cln out bx end) TIH/PU 40jts tag/latch up 9' in at 5029'KB w/159th jt -Jay off pkr LD 2 jts, needed 1' to space tbg out - PU 32' long jt (158) MU SS/SN & TC-1C donut (2.5"BPV) latch on to pkr (pull 15K over 1X) land tbg with 18K (5029' element) lock set screw - press test wellbore/pkr at 1100#, 100% test (tbg open) ND BOPe, install seal sub, NU 5K tree - test seal sub to 2000#/10 mins test good, press test tbg at 2500# for 5 mins, test good (w/csg open) RU Tefteller Test Lubricator/tbg 2150#/5min test good (w/csg open) RIH ruptured disc (1800# on tbg below pkr) Pooh LD equalizing tool, RIH latch on to plug (at 5011 SLD) release plug, Pooh LD 1.81 plug & RD Tefteller - spot in WSi test trailer, MIT well at 1000# on chart, 940-# on gauge & 1740# on tbg for 30 mins, pass MIT witness by NNEPA Jean Bia, RD test trailer (RD Pump/lines) RDMO WSU - SWi, SDFN
4/25/2012	4/25/2012	Jsa tail gate mtg w/roustabout crew - LOTO well - RU line to tree & frac tank - 1725# tbg, 0# on csg - Flowed 27bbls of clean fluid & tbg flowing a 1" stream & flowed 40bbls mud to earth pit - started to flow back gray colored fluid, recover 413bbls & tbg clean up (flowed total 480bbls back) shut tbg in with 1050# (ISTP) secured well, SDFN
4/26/2012	4/26/2012	Jsa tail gate mtg - RD Flow back line, set up injctn skid, tie tree & injctn skid - remove LOTO - notified Ernest Lee well is ready to put back on line (tbg 1050# - 0# csg - waiting on 1 call to clean up location - Key haul off 340bbls fluid to Basin Disposal) 1) dead man tested 4/12 2) 5K tree/well head 3) cathodic hook up rectifier: 19 volt, 10 amp 4) location clean

Mechanical Integrity Test, 4/24/2012

Primary Job Type	Start Date	End Date	Objective	Summary
Mechanical Integrity Test	4/24/2012	4/24/2012	Perform 3-Year MIT	

Daily Operations

Start Date	End Date	Summary
4/24/2012	4/24/2012	Travel, Jsa With WSI, NNEPA, Tbg : 1740 # Psi, Csg 0 # Psi, BH 0 # Psi Spot In WSI Pump Trailer RU Psi Tested Csg Up To 1000 # Psi For 30 Mins.Pass MIT Test Recorded And Chart It By NNEPA Jean Bia RD MO.

Mechanical Integrity Test, 4/21/2015

Primary Job Type	Start Date	End Date	Objective	Summary
Mechanical Integrity Test	4/21/2015	4/21/2015	Perform 3-Year MIT	

Daily Operations

Start Date	End Date	Summary
4/21/2015	4/21/2015	Perform 3-year MIT. Pkr @ 5,014'. FTP 2,650 psig, SICP 0 psig. MIRU Wellcheck, BD csg. BH buried, couldn't find. Press csg to 1,020 psig, chart for 30 min. Passed MIT. Witnessed by Jean Bia/NNEPA.

Casing Information

Csg Des	Set Depth (ftKB)	Run Date/Time	OD (in)	ID (in)
Conductor Pipe	172.0	10/4/1960	13 3/8	
Surface Casing	1,228.0	10/4/1960	8 5/8	8.097
Production Casing	5,474.0	10/4/1960	5 1/2	5.012

Cement Information

Description	Top (ftKB)	Btm (ftKB)
Primary Single	12.0	1,228.0
Plug	5,446.0	5,474.0
Primary Multi	12.0	172.0
Primary Single		

Operations QUICK Report

Well Name: MCU E-19

Well Information

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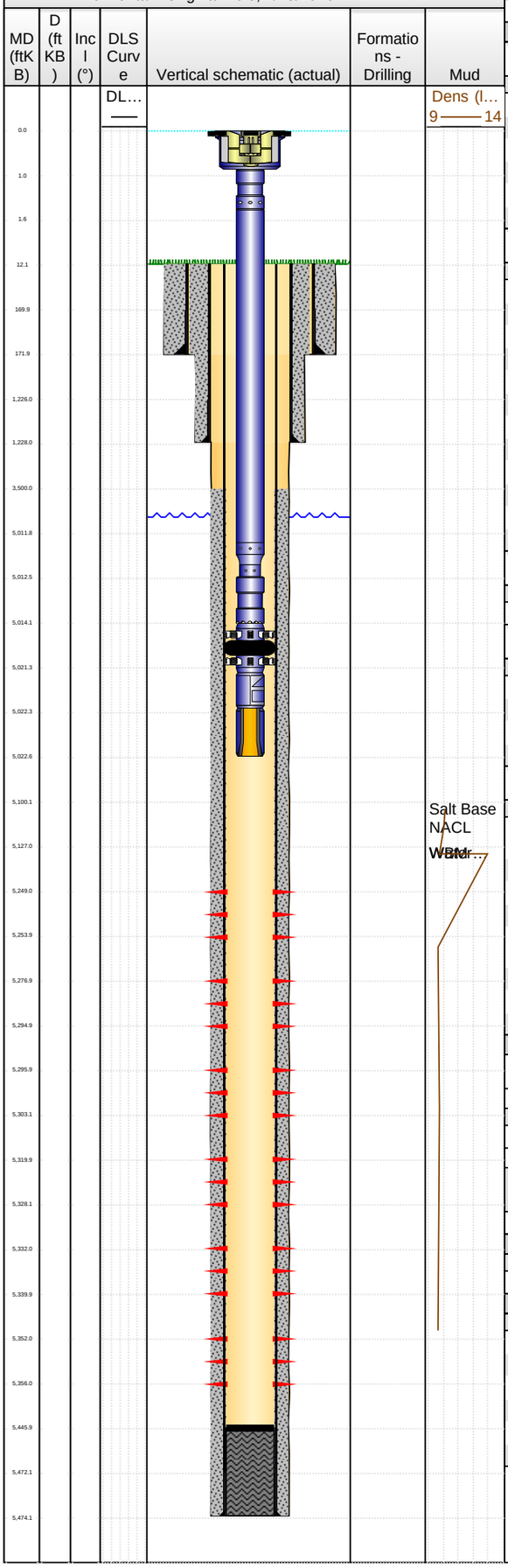


Top (ftKB)	Btm (ftKB)
3,500.0	5,474.0

Tubing Information

Tubing Description	Set Depth (ftKB)	Run Date
Tubing - Production	5,152.0	5/9/1990

Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)
Tubing Joint(s)	2 7/8	2.065	6.50	J-55	31.00
Tubing Joint(s)	2 7/8	2.065	6.50	J-55	93.00
Tubing Joint(s)	2 7/8	2.065	6.50	J-55	5,007.00
Cross Over - Reducing	2 7/8			Unknown	1.00
On-Off Tool	2 7/8			Unknown	1.00
Packer - Retrievable	2 7/8			Unknown	7.00

Tubing Description	Set Depth (ftKB)	Run Date
Tubing - Production	5,063.6	7/26/2007

Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)
Tubing Hanger	2 7/8	2.441			1.00
Tubing	2 7/8	2.441	6.50	J-55	4,968.00
Sliding Sleeve	2 7/8	2.310			3.10
Tubing	2 7/8	2.441	6.50	J-55	30.18
Check Vlave	2 7/8	2.441			0.50
Tubing/Sub	2 7/8	2.441	6.50	J-55	4.00
Cross Over	2 7/8	1.995			0.50
ESP - Pump	4 1/2				14.79
Gas separator	4 1/2				2.65
Seal Section	4 1/2				5.60
ESP - Motor	4 1/2				17.02
Centinal	4 1/2				4.10

Tubing Description	Set Depth (ftKB)	Run Date
Tubing - Injection	5,069.0	9/2/2008

Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)

Tubing Description	Set Depth (ftKB)	Run Date
Tubing - Injection	5,039.0	8/4/2010

Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)
Tubing- TK Fiberlined	2 7/8	2.441	6.50	J-55	31.00
Tubing Pup Joint	2 7/8				12.00
Tubing TK fiberlined	2 7/8	2.441	6.50	J-55	4,972.96
Packer Arrowset1X	5 1/2				11.04

Tubing Description	Set Depth (ftKB)	Run Date
Tubing - Injection	5,022.6	4/19/2012

Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)
Tubing Hanger (TC-1A=2.5" BPV)	7 1/16	2.500			0.85
Pump Seating Nipple	2 7/8	2.310			0.65
Tubing (TK; top 39 org/119 YB)	2 7/8	2.144	6.50	J-55	5,010.45
Cross Over	2 7/8	2.000			0.50
T-2 On-Off Tool (1.81F seal nipple)	2 7/8	1.810			1.75
Packer (ArrowSet 1X)	2 7/8	2.000			7.25
Profile Nipple (1.78R)	2 7/8	1.780			0.78
Wireline Guide	2 7/8	2.000			0.40

Rod and Pump Information

Rod Description	Set Depth (ftKB)	Run Date

Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)

Rod Pumps

Bore (in)	API Pump Type	API Bbl Typ	API Anchor Type	Seat Assy Typ	Barrel Length (ft)	Nom Plunger Len (ft)	Upper Ext Len (ft)	Lwr Ext Len (ft)

Pumping Units

API Des	Type	Make	Model

Perforations

Date	Top (ftKB)	Btm (ftKB)	Zone
10/4/1960	5,249.0	5,254.0	
10/4/1960	5,277.0	5,295.0	
10/4/1960	5,296.0	5,303.0	
10/4/1960	5,320.0	5,328.0	
10/4/1960	5,332.0	5,340.0	
10/4/1960	5,352.0	5,356.0	

RESOLUTE NATURAL RESOURCES

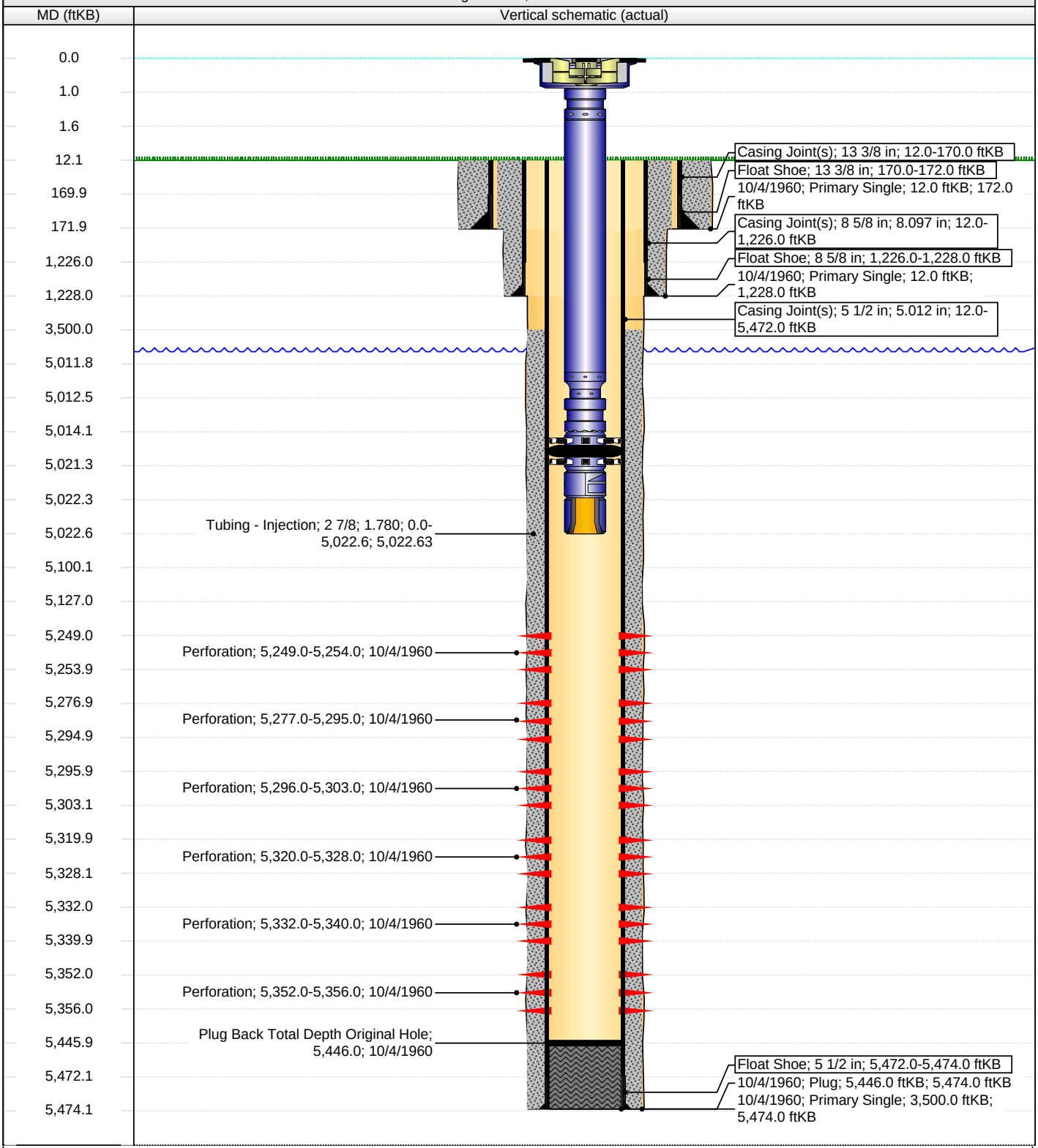
Schematic Detail

Well Name: MCU E-19

Well Name	API Number	Qtr/Qtr	Section	TWN	Range	Regulatory Spud Date	Field Name	State/Province
MCU E-19	4303716342	C NE SE	11	41S	24E	8/24/1960	McElmo Creek Unit	Utah

Original KB Elevation (ft)	KB-Ground Distance (ft)	Total Depth (ftKB)	PBTD (All) (ftKB)
4,452.00	12.00	7,425.0	Original Hole - 5,446.0

Horizontal - Original Hole, 3/9/2016 11:27:08 AM



Report Printed: 3/9/2016

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